REPUBLIC OF THE PHILIPPINES
**DEPARTMENT OF HEALTH**
**BUREAU OF FOOD AND DRUGS**
Civic Drive, Filinvest Corporate City
Alabang, Muntinlupa City

18 October 2006

BUREAU CIRCULAR
No. 2006-016

TO: ALL MANUFACTURERS, DISTRIBUTORS, IMPORTERS AND WHOLESALERS OF PROCESSED FOOD PRODUCTS DISTRIBUTED IN THE PHILIPPINES

SUBJECT: Updated List of Food Additives

## BACKGROUND

It is the State's policy, under Article II, Section 15, of the 1987 Constitution to "protect and promote the right to health of the people and instill health consciousness among them."

The 1987 Constitution also provides, in this Article XIII, Section 12, that: "The State shall establish and maintain an effective food and drug regulatory system and undertake appropriate health manpower development and research, responsive to the country's health needs and problems."

Thus, to implement the foregoing policies, the Government, through the Department of Health, was mandated to, in accordance with the provisions of Republic Act No. 3720, as amended by Executive Order No. 175, and Republic Act No. 7394, establish standards and quality measures for foods and adopt measures to ensure pure and safe supply of foods in the country.

The current regulatory guideline on the use of food additives in processed foods sold in the Philippines, Administrative Order No. 88-A s. 1984, needs updating to meet the current and emerging trends in food manufacturing. In view of the above and consistent with the requirements of the "WTO Agreement on Technical Barriers to Trade" on overcoming technical obstacles in world markets, this Bureau Circular aims to update and put together the list of permitted food additives and prescribes guidelines for their use and application in foods distributed in the Philippines whether locally manufactured or imported.

## I. OBJECTIVES

1. To establish a regulation prescribing:

    a. The conditions under which a food additive may be safely used and

    b. The maximum quantity of food additive which may be used or permitted to remain in or on such food;

2. To ensure food safety and harmonize local food regulation with international food control laws, rules and regulations and to ensure market access opportunities.

3. To update the list of permitted food additives and prescribe guidelines for their use and application in food distributed in the Philippines.

## II. DEFINITION OF TERMS

For the purposes of this Circular, the following terms shall have the following meaning:

1. **Acceptable Daily Intake (ADI)** refers to an estimate by the JECFA of the amount of a food additive, expressed on a body weight basis (reference man-60kg), that can be ingested daily over a lifetime without appreciable health risk. (Codex STAN 192-1995 (Rev.6. 2005), (WHO Environmental Health Criteria No. 70, 1987)

2. **FAO** refers to Food Agriculture Organization

3. **FCC** refers to Food Chemicals Codex

4. **Flavoring Substances** refers to flavor preparations composed of substances derived from plant / animal products and / or chemically synthesized substances whose significant function in food is flavoring rather than nutritional.(AO No. 88 A s. 1984)

5. **Food Additive** refers to any substance the intended use of which results or may reasonably be expected to result, or indirectly, in its becoming a component or otherwise affecting the characteristics of any food (including any substance intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food; and including any source of radiation intended for any such use), if such substance is generally recognized, among experts qualified by scientific training and experience to evaluate its safety, as having been adequately shown through scientific procedures to be safe under the conditions of the intended use. (RA No. 3720)

6. **Good Manufacturing Practice (GMP)** refers to the level of use of the least or minimal amount of food additive that is necessary to accomplish the intended effect.(AO 153 s. 2004)

7. **IOFI** refers to International Organization of the Flavor Industry

8. **JECFA** refers to Joint FAO/WHO Expert Committee on Food Additives.

9. **WHO** refers to World Health Organization

10. **US FEMA** refers to United States Flavors Extracts Manufacturers Association

## III. GENERAL GUIDELINES

### A. General Principles for the Use of Food Additives

1. Only those food additives which present no appreciable risk to the health of the consumer at the proposed level of use as found by JECFA and/or other internationally recognized bodies shall be endorsed and included in the APPENDIX, after proper evaluation by DOH-BFAD.

2. The use of a food additive is justified only when any or all of the following condition exists:

   2.1 That it results to an advantage on the part of the food, such as lengthening of shelf life, enhance nutritional quality etc.;
   2.2 That it does not present an appreciable health risk to consumers;
   2.3 That it does not mislead the consumer;
   2.4 That it serves one or more of the technological functions set out in Table 9, entitled "Food Additive Functional Classes and Sub Classes", and the needs set out from (2.4.1 through (2.4.4) below, and only where these objectives cannot be achieved by other means which are economically and technologically practicable ;

   2.4.1 To preserve the nutritional quality of the food; an intentional reduction in the nutritional quality of a food would be justified in the circumstances dealt with in sub-paragraph (2.4.2) and also in other circumstances where the food does not constitute a significant item in a normal diet;

   2.4.2 To provide necessary constituents for foods manufactured for groups of consumers having special dietary needs;

   2.4.3 To enhance the keeping quality or stability of a food or to improve its sensory properties, provided that this does not change the nature, substance or quality of the food so as to deceive the consumer; and,

   2.4.2 To provide an aid in the manufacture, processing, preparation, treatment, packing, transport or storage of food, provided that the additive is not used to disguise the effects of the use of faulty raw materials or of undesirable (including unhygienic) practices or techniques during the course of any of these activities.

3. The Permitted Levels of Use of Food Additives

   The primary objective of establishing permitted levels of use of food additives in various food groups is to ensure that the intake of additives does not exceed the acceptable daily intake (ADI).

   The maximum levels of food additive use are based in part on BFAD commodity standards, Codex and upon request of interested parties after subjecting their proposed maximum levels to internationally accepted scientific methods, ensuring that the same shall not exceed prescribed ADI.

4. Good Manufacturing Practice (GMP)

   All food additives subject to the provisions of this circular shall be used under conditions of good manufacturing practice, which include the following:

   4.1 The quantity of the additive added to food shall be limited to the lowest possible level necessary to accomplish its desired effect**;** unless specifically limited by this Circular for or to a specific application;

   4.2 The quantity of the additive that becomes a component of food as a result of its use in the manufacturing, processing or packaging of a food and which is not intended to accomplish any physical, or other technical effect in the food itself, is reduced to the extent reasonably possible; and,

   4.3 The food additive is of food grade quality and is prepared and handled in the same way as a food ingredient.

5. Specifications for the Identity and Purity of Food Additives

   Food additives used in accordance with this Circular should be of appropriate food grade quality and at all times conform with the applicable Specifications of Identity and Purity recommended by the Codex Alimentarius Commission, JECFA or, in the absence of such specifications, by responsible international regulating bodies. In terms of safety, food grade quality is achieved by compliance with the specifications as a whole and not merely with individual criteria.

## B. Provision for Mislabeled or Adulterated Food

Any food additive used not in accordance with the requirements of this Regulation or Circular shall be deemed to be an act which results in the food being misbranded or adulterated, as the case may be.

For violation(s) of this regulation, the sanctions provided under Republic Act No. 3720, as amended, Republic Act 7394, and other allied laws and regulations may be imposed as far as applicable and after due notice and summary hearing.

## C. Carry-Over Principle of Food Additives into Food

The Carry-over Principle –Other than by direct addition, an additive may be present in a food as a result of carry- over principle from a food ingredient, subject to the following conditions:

1. The food additive is permitted in the raw materials or other ingredients (including food additives) according to this Circular;

2. The amount of the food additive in the raw materials or other ingredients (including food additives) does not exceed the maximum level so permitted;

3. The food into which the additive is carried over does not contain the food additive in greater quantity than would be introduced by the use of the ingredients under proper technological conditions or manufacturing practice.

## D. Food Category System

The food category system attached as Appendix to Table 1 of this Circular shall be a tool for the allocation of food additive uses. This food category system applies to all food including those in which no additives are permitted.

The food descriptors are not to be legal product designations nor are they intended for labeling purposes.

The food category system is based on the following principles:

1. The food category system is hierarchical, meaning that when the use of an additive is permitted in a general category, it is automatically permitted in all its sub-categories, unless otherwise stated. Similarly when an additive is permitted in a sub-category, its use is also allowed in any further sub categories and in descriptors or individual foods mentioned in a sub-category.

2. The food category system is based on product descriptors of foods as marketed, unless otherwise stated.

3. The food category system takes into consideration the carry-over principle. Doing so, the food category system does not need to specifically mention compound foods, e.g., prepared meals, because they may contain, pro rata, all the additives allowed in their components, except when the compound food needs as additive which is not authorized in its components.

4. The food category system is used to simplify the reporting of food additive uses for assembling and constructing this Circular.

## IV. FORMAT OF THE FOOD ADDITIVE LISTING

The food additives herein have been grouped into major functional groups. For each food additive (or food additive group) within each major functional class, their maximum levels of use as well as conditions of use for each are specified (see Table 9).

## VI. FLAVORING SUBSTANCES

If food additives are to be used as flavoring substances they should abide by the regulation set by FEMA and or IOFI.

## VII. REVIEW AND REVISION OF THE FOOD ADDITIVE LISTING

The food additives, enumerated in the APPENDIX attached to this Circular should be reviewed, amended and/or revised by the Technical Working Group on Food Additives and Contaminants (TWGFAC) on a regular basis, which amendment or revision shall take effect only upon the favorable recommendation by the BFAD.

Any food additive and functional classes adopted by the Codex Alimentarius Commission (CAC) shall be automatically included as an addendum to the Appendix for Food Additives.

**PROF. LETICIA-BARBARA B. GUTIERREZ, M.S**
Director IV

## TABLE 1 FOOD CATEGORY SYSTEM

01.0 Dairy products, excluding products of category 02.0
01.1 Milk and dairy-based drinks
- 01.1.1 Milk and buttermilk
  - 01.1.1.1 Milk, including sterilized and UHT goats milk
  - 01.1.1.2 Buttermilk (plain)
- 01.1.2 Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, **drinking yoghurt, whey-based drinks**)

01.2 Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks)
- 01.2.1 Fermented milks (plain)
  - 01.2.1.1 Fermented milks (plain), not heat-treated after fermentation
  - 01.2.1.2 Fermented milks (plain), heat-treated after fermentation
- 01.2.2 Renneted milk

01.3 Condensed milk and analogues
- 01.3.1 Condensed milk (plain)
- 01.3.2 Beverage whiteners
- **01.3.3 Sweetened condensed milk (plain and flavoured), and analogues**

01.4 Cream (plain) and the like
- 01.4.1 Pasteurized cream
- 01.4.2 Sterilized, UHT, whipping or whipped, and reduced fat creams
- 01.4.3 Clotted cream
- 01.4.4 Cream analogues

01.5 Milk powder and cream powder
- 01.5.1 Milk powder and cream powder **(plain)**
- 01.5.2 Milk and cream powder analogues
- **01.5.3 Milk and cream (blend) powder (plain and flavoured)**

01.6 Cheese
- 01.6.1 Unripened cheese
- 01.6.2 Ripened cheese
  - 01.6.2.1 Total ripened cheese, includes rind
  - 01.6.2.2 Rind of ripened cheese
  - 01.6.2.3 Cheese powder (for reconstitution; e.g., for cheese sauces)
- 01.6.3 Whey cheese
- 01.6.4 Processed cheese
  - **01.6.4.1 Plain processed cheese**
  - **01.6.4.2 Flavoured processed cheese, including containing fruit, vegetables, meat, etc.**
- 01.6.5 Cheese analogues
- **01.6.6 Whey protein cheese**

01.7 Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt)
01.8 Whey and whey products, excluding whey cheese**s**

02.0 Fats and oils, and fat emulsions (type water-in-oil)
02.1 Fats and oils essentially free from water
- 02.1.1 Butter oil, anhydrous milkfat, ghee

02.1.2 Vegetable oils and fats
02.1.3 Lard, tallow, fish oil, and other animal fats
02.2 Fat emulsions mainly of type water-in-oil
02.2.1 Emulsions containing at least 80% fat02.2.1.1 Butter and concentrated butter
02.2.1.2 Margarine and similar products (e.g., butter-margarine blends)
02.2.2 Emulsions containing less than 80% fat (e.g., minarine)
02.3 Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions
02.4 Fat-based desserts excluding dairy-based dessert products of food category 01.7

03.0 Edible ices, including sherbet and sorbet

04.0 Fruits and vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes), **seaweeds,** and nuts and seeds
04.1 Fruit
04.1.1 Fresh fruit
04.1.1.1 Untreated **fresh** fruit
04.1.1.2 Surface-treated **fresh** fruit
04.1.1.3 Peeled or cut **fresh** fruit
04.1.2 Processed fruit
04.1.2.1 Frozen fruit
04.1.2.2 Dried fruit
04.1.2.3 Fruit in vinegar, oil, or brine
04.1.2.4 Canned or bottled (pasteurized) fruit
04.1.2.5 Jams, jellies, marmalades
04.1.2.6 Fruit-based spreads (e.g., chutney) excluding products of food category
04.1.2.7 Candied fruit
04.1.2.8 Fruit preparations, including pulp, **purees**, fruit toppings **and coconut milk**
04.1.2.9 Fruit-based desserts, incl. fruit-flavoured water-based desserts
04.1.2.10 Fermented fruit products
04.1.2.11 Fruit fillings for pastries
04.1.2.12 Cooked or fried fruit
04.2 Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes), seaweeds, and nuts and seeds
04.2.1 Fresh vegetables**, and nuts and seeds**
04.2.1.1 Untreated **fresh** vegetables**, and nuts and seeds**
04.2.1.2 Surface-treated **fresh** vegetables**, and nuts and seeds**
04.2.1.3 Peeled, cut **or shredded** vegetables**, and nuts and seeds**
04.2.2 Processed vegetables, seaweeds, and nuts and seeds
04.2.2.1 Frozen vegetables
04.2.2.2 Dried vegetables**, seaweeds, and nuts and seeds**
04.2.2.3 Vegetables **and seaweeds** in vinegar, oil, brine**, or soy sauce**
04.2.2.4 Canned or bottled (pasteurized) **or retort pouch** vegetables
04.2.2.5 Vegetable, and nut and seed purees and spreads (e.g., peanut butter)
04.2.2.6 Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, **soybean curd**) other than food category
04.2.2.7 Fermented vegetable products
04.2.2.8 Cooked or fried vegetables **and seaweeds**

05.0 Confectionery
05.1 Cocoa products and chocolate products including imitations and chocolate substitutes
- 05.1.1 Cocoa mixes (powders and syrups)
- 05.1.2 Cocoa-based spreads, incl. fillings
- 05.1.3 Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than **food categories** 05.1.1, 05.1.2 and 05.1.4
- 05.1.4 Imitation chocolate, chocolate substitute products

05.2 Sugar-based confectionery including hard and soft candy, nougats, etc. other than **food categories** 05.1, 05.3, and 05.4
05.3 Chewing gum
05.4 Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces

06.0 Cereals and cereal products, including flours and starches from roots and tubers, pulses and legumes, excluding bakery wares of food category 07.0
06.1 Whole, broken, or flaked grain, including rice
06.2 Flours and starches
06.3 Breakfast cereals, including rolled oats
06.4 Pastas and noodles **and like products (e.g. rice paper, rice vermicelli)**
- **06.4.1 Fresh pastas and noodles and like products**
- **06.4.2 Pre-cooked or dried pastas and noodles and like products**

06.5 Cereal and starch based desserts (e.g., rice pudding, tapioca pudding)
06.6 Batters (e.g., for breading or batters for fish or poultry)
**06.7 Rice cakes (Oriental type only)**

07.0 Bakery wares
07.1 Bread and ordinary bakery wares
- 07.1.1 Breads and rolls
- 07.1.2 Crackers, excluding sweet crackers
- 07.1.3 Other ordinary bakery products (e.g., bagels, pita, English muffins)
- 07.1.4 Bread-type products, including bread stuffing and bread crumbs
- **07.1.5 Steamed breads and buns**

07.2 Fine bakery wares
- 07.2.1 Cakes, cookies and pies (e.g., fruit-filled or custard types)
- 07.2.2 Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins)
- 07.2.3 Mixes for fine bakery wares (e.g., cakes, pancakes)

08.0 Meat and meat products, including poultry and game
08.1 Fresh meat, poultry and game
- 08.1.1 Fresh meat, poultry and game, whole pieces or cuts
- 08.1.2 Fresh meat, poultry and game, comminuted

08.2 Processed meat, poultry, and game products in whole pieces or cuts
- 08.2.1 Non-heat treated processed meat, poultry, and game products in whole pieces or cuts
  - 08.2.1.1 Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts
  - 08.2.1.2 Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts
  - 08.2.1.3 Fermented non-heat treated processed meat, poultry, and game products

in whole pieces or cuts
08.2.2 Heat-treated processed meat, poultry, and game products in whole pieces or cuts
08.2.3 Frozen processed meat, poultry, and game products in whole pieces or cuts
08.3 Processed comminuted meat, poultry, and game products
08.3.1 Non-heat treated processed comminuted meat, poultry, and game products
08.3.1.1 Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products
08.3.1.2 Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products
08.3.1.3 Fermented non-heat treated processed comminuted meat, poultry, and game products
08.3.2 Heat-treated processed comminuted meat, poultry, and game products
08.3.3 Frozen processed comminuted meat, poultry, and game products
08.4 Edible casings (e.g., sausage casings)

09.0 Fish and fish products, including mollusks, crustaceans, and echinoderms
09.1 Fresh fish and fish products, including mollusks, crustaceans, and echinoderms
09.1.1 Fresh fish
09.1.2 Fresh mollusks, crustaceans and echinoderms
09.2 Processed fish and fish products, including mollusks, crustaceans, and echinoderms
09.2.1 Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms
09.2.2 Frozen battered fish, fish fillets and fish products, including mollusks, crustaceans, and echinoderms
09.2.3 Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms
09.2.4 Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms
09.2.4.1 Cooked fish **and fish products**
09.2.4.2 Cooked mollusks, crustaceans, and echinoderms
09.2.4.3 Fried fish and fish products, including mollusks, crustaceans, and echinoderms
09.2.5 Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms
09.3 Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms
09.3.1 Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly
09.3.2 Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine
09.3.3 Salmon substitutes, caviar, and other fish roe products
09.3.4 Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3
09.4 Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms

10.0 Eggs and egg products
10.1 Fresh eggs

10.2 Egg products
- 10.2.1 Liquid egg products
- 10.2.2 Frozen egg products
- 10.2.3 Dried and/or heat coagulated egg products

10.3 Preserved eggs, including alkaline, salted, and canned eggs
10.4 Egg-based desserts (e.g., custard)

11.0 Sweeteners, including honey
11.1 White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings
11.2 Other sugars and syrups (e.g., brown sugar, maple syrup)
11.3 Honey
11.4 Table-top sweeteners, including those containing high-intensity sweeteners

12.0 Salts, spices, soups, sauces, salads, protein products, etc.
12.1 Salt
12.2 Herbs, spices, seasonings (including salt substitutes), and condiments
12.3 Vinegars
12.4 Mustards
12.5 Soups and broths
- 12.5.1 Ready-to-eat soups and broths, including canned, bottled, and frozen
- 12.5.2 Mixes for soups and broths

12.6 Sauces and like products
- 12.6.1 Emulsified sauces (e.g., mayonnaise, salad dressing, ~~**soy sauce**~~)
- 12.6.2 Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy)
- 12.6.3 Mixes for sauces and gravies
- **12.6.4 Clear sauces (e.g., soy sauce, fish sauce)**

12.7 Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut based spreads of food categories 04.2.2.5 and 05.1.2
12.8 Yeast **and like products**
12.9 Protein products

13.0 Foodstuffs intended for particular nutritional uses
13.1 Infant formulae and follow-on formulae
13.2 Weaning foods for infants and growing children
13.3 Dietetic foods intended for special medical purposes**, including those for infants and young children**
13.4 Dietetic formulae for slimming purposes and weight reduction
13.5 Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1- 13.4
13.6 Food supplements

14.0 Beverages, excluding dairy products
14.1 Non-alcoholic ("soft") beverages
- 14.1.1 Waters
  - 14.1.1.1 Natural mineral waters and source waters
  - 14.1.1.2 Table waters and soda waters
- 14.1.2 Fruit and vegetable juices

14.1.2.1 Canned or bottled (pasteurized) fruit juice
14.1.2.2 Canned or bottled (pasteurized) vegetable juice
14.1.2.3 Concentrates (liquid or solid) for fruit juice
14.1.2.4 Concentrates (liquid or solid) for vegetable juice
14.1.3 Fruit and vegetable nectars
14.1.3.1 Canned or bottled (pasteurized) fruit nectar
14.1.3.2 Canned or bottled (pasteurized) vegetable nectar
14.1.3.3 Concentrates (liquid or solid) for fruit nectar
14.1.3.4 Concentrates (liquid or solid) for vegetable nectar
14.1.4 Water-based flavoured drinks, including "sport" or "electrolyte" drinks **and partiulated drinks**
14.1.4.1 Carbonated drinks
14.1.4.2 Non-carbonated, including punches and ades
14.1.4.3 Concentrates (liquid or solid) for drinks
14.1.5 Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal **and grain** beverages, excluding cocoa
14.2 Alcoholic beverages, including alcohol-free and low-alcoholic counterparts
14.2.1 Beer and malt beverages
14.2.2 Cider and perry
14.2.3 Wines
14.2.3.1 Still wine
14.2.3.2 Sparkling and semi-sparkling wines
14.2.3.3 Fortified wine and liquor wine
14.2.3.4 Aromatized wine
14.2.4 Fruit wine
14.2.5 Mead
14.2.6 Spirituous beverages
14.2.6.1 Spirituous beverages containing more than 15% alcohol
14.2.6.2 Spirituous beverages containing less than 15% alcohol

15.0 Ready-to-eat savouries
15.1 Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes)
15.2 Processed nuts, including coated nuts and nut mixtures (with e.g., dried fruit)
**15.3 Snacks - fish based**

16.0 Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15.

# TABLE 2

## Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Annex to Table 2 in Accordance with GMP

| INS No | Additive |
|---|---|
| 260 | ACETIC ACID, GLACIAL |
| 472a | ACETIC AND FATTYY ACID ESTERS OF GLYCEROL |
| 1422 | ACETYLATED DISTARCH ADIPATE |
| 1414 | ACETYLATED DISTARCH PHOSPHATE |
| 1451 | ACETYLATED OXIDIZED STARCH |
| 1401 | ACID TREATED STARCH |
| 406 | AGAR |
| 400 | ALGINIC ACID |
| 1402 | ALKALINE TREATED STARCH |
| 1100 | ALPHA- AMYLASE (ASPERGILLUS ORYZAE VAR.) |
| 1100 | ALPHA – AMYLASE (BACILLUS MEGATERIUM EXPRESSED IN BACILLUS SUBTILIS) |
| 1100 | ALPHA – AMYLASE (BACILLUS STEAROTHERMOPHILUS EXPRESSED IN BACILLUS SUBTILIS) |
| 1100 | ALPHA – AMYLASE (BACILLUS STEAROTHERMOPHILUS) |
| 1100 | ALPHA – AMYLASE (BACILLUS SUBTILIS) |
| 1100 | ALPHA – AMYLASE (CARBOHYDRASE) (BACILLUS LICHENIFORMIS) |
| 559 | ALUMINIUM SILICATE |
| 264 | AMMONIUM ACETATE |
| 403 | AMMONIUM ALGINATE |
| 503i | AMMONIUM CARBONATE |

| INS No | Additive |
|---|---|
| 510 | AMMONIUM CHLORIDE |
| 380 | AMMONIUM CITRATE |
| 503ii | AMMONIUM HYDROGEN CARBONATE |
| 527 | AMMONIUM HYDROXIDE |
| 328 | AMMONIUM LACTATE |
| 300 | ASCORBIC ACID |
| 162 | BEET RED |
| 1403 | BLEACHED STARCH |
| 1101iii | BROMELAIN |
| 263 | CALCIUM ACETATE |
| 404 | CALCIUM ALGINATE |
| 556 | CALCIUM ALUMINIUM SILICATE |
| 302 | CALCIUM ASCORBATE |
| 170i | CALCIUM CARBONATE |
| 509 | CALCIUM CHLORIDE |
| 333 | CALCIUM CITRATES |
| 578 | CALCIUM GLUCONATE |
| 623 | CALCIUM GLUTAMATE, DI – L – |
| 629 | CALCIUM GUANYLATE, 5’ – |
| 526 | CALCIUM HYDROXIDE |
| 633 | CALCIUM INOSINATE, 5’ – |
| 327 | CALCIUM LACTATE |
| 352ii | CALCIUM MALATE |
| 529 | CALCIUM OXIDE |
| 282 | CALCIUM PROPIONATE |
| 634 | CALCIUM RIBONUCLEOTIDES, 5’ – |

| INS No | Additive |
|---|---|
| 552 | CALCIUM SILICATE |
| 516 | CALCIUM SULPHATE |
| 150a | CARAMEL COLOUR, CLASS I |
| 290 | CARBON DIOXIDE |
| 410 | CAROB BEAN GUM |
| 407 | CARRAGEENAN |
| 140 | CHLOROPHYLLS |
| 1001 | CHOLINE SALTS |
| 330 | CITRIC ACID |
| 472c | CITRIC AND FATTY ACID ESTERS OF GLYCEROL |
| 468 | CROOS – LINKED CARBOXYMETHYL CELLULOSE |
| 424 | CURDLAN |
| 457 | CYCLODEXTRIN, ALPHA – |
| 458 | CYCLODEXTRIN, GAMMA – |
| 1400 | DEXTRINS, WHITE AND YELLOW, ROASTED STARCH |
| 628 | DIPOTASSIUM GUANYLATE, 5’ – |
| 632 | DIPOTASSIUM INOSINATE, 5’ – |
| 627 | DISODIUM GUANYLATE, 5’ – |
| 631 | DISODIUM INOSINATE, 5’ – |
| 635 | DISODIUM RIBONUCLEOTIDES, 5’ – |
| 1412 | DISTARCH PHOSPHATE |
| 1405 | ENZYME TREATED STARCH |
| 315 | ERYTHORBIC ACID |
| 968 | ERYTHRITOL |
| 462 | ETHYL CELLULOSE |
| 467 | ETHYL HYROXYETHYL CELLULOSE |

| INS No | Additive |
|---|---|
| 297 | FUMARIC ACID |
| 418 | GELLAN GUM |
| 575 | GLUCONO DELTA – LACTONE |
| 1102 | GLUCOSE OXIDASE (ASPERGILLUS NIGER VAR.) |
| 620 | GLUTAMIC ACID (L+) – |
| 422 | GLYCEROL |
| 626 | GUANYLIC ACID, 5’ – |
| 412 | GUAR GUM |
| 414 | GUM ARABIC |
| 507 | HYDROCHLORIC ACID |
| 463 | HYDROXYPROPYL CELLULOSE |
| 1442 | HYDROXYPROPYL DISTARCH PHOSPHATE |
| 464 | HYDROXYPROPYL METHYL CELLULOSE |
| 1440 | HYDROXYPROPYL STARCH |
| 630 | INOSINIC ACID, 5’ – |
| 1202 | INSOLUBLE POLYVINYLPYRROLIDONE |
| 953 | ISOMALT |
| 416 | KARAYA GUM |
| 425 | KONJAC FLOUR |
| 270 | LACTIC ACID |
| 472b | LACTIC AND FATTY ACID ESTERS OF GLYCEROL |
| 966 | LACTITOL |
| 322 | LECITHIN |
| 1104 | LIPASE (ANIMAL SOURCES) |
| 1104 | LIPASE (ASPERGILLUS ORYZAE VAR.) |
| 504i | MAGNESIUM CARBONATE |

| INS No | Additive |
|---|---|
| 511 | MAGNESIUM CHLORIDE |
| 580 | MAGNESIUM GLUCONATE |
| 625 | MAGNESIUM GLUTAMATE, DI – L – |
| 504ii | MAGNESIUM HYDROGEN CARBONATE |
| 528 | MAGNESIUM HYDROXIDE |
| 329 | MAGNESIUM LACTATE (DL -) |
| 530 | MAGNESIUM OXIDE |
| 553i | MAGNESIUM SILICATE (SYNTHETIC) |
| 296 | MALIC ACID (DL -) |
| 965 | MALTITOL (INCLUDING MALTITOL SYRUP) |
| 421 | MANNITOL |
| 461 | METHYL CELLULOSE |
| 465 | METHYL ETHYL CELLULOSE |
| 460i | MICROCRYSTALLINE CELLULOSE |
| 471 | MONO – AND DIGLYCERIDES |
| 624 | MONOAMMONIUM GLUTAMATE, L – |
| 622 | MONOPOTASSIUM GLUTAMATE, L – |
| 621 | MONOSODIUM GLUTAMATE, L – |
| 1410 | MONOSTARCH PHOSPHATE |
| 941 | NITROGEN |
| 942 | NITROUS OXIDE |
| 1404 | OXIDIZED STARCH |
| 1101ii | PAPAIN |
| 440 | PECTINS (AMIDATED AND NON – AMIDATED) |
| 1413 | PHOSPHATED DISTARCH PHOSPHATE |
| 1200 | POLYDEXTROSES |

| INS No | Additive |
|---|---|
| 964 | POLYGLYCITOL SYRUP |
| 261 | POTASSIUM ACETATES |
| 402 | POTASSIUM ALGINATE |
| 303 | POTASSIUM ASCORBATE |
| 501i | POTASSIUM CARBONATE |
| 508 | POTASSIUM CHLORIDE |
| 332i | POTASSIUM DIHYDROGEN CITRATE |
| 577 | POTASSIUM GLUCONATE |
| 501ii | POTASSIUM HYDROGEN CARBONATE |
| 351i | POTASSIUM HYDROGEN MALATE |
| 525 | POTASSIUM HYDROXIDE |
| 326 | POTASSIUM LACTATE |
| 351i | POTASSIUM MALATE |
| 283 | POTASSIUM PROPIONATE |
| 515 | POTASSIUM SULPHATE |
| 460ii | POWDERED CELLULOSE |
| 407a | PROCESSED EUCHEUMA SEAWEED |
| 944 | PROPANE |
| 280 | PROPIONIC ACID |
| 1100i | PROTEASE (ASPERGILLUS ORYZAE VAR.) |
| 470 | SALTS OF MYRISTIC, PALMITIC AND STEARIC ACIDS (NH4, Ca, K, Na) |
| 470 | SALTS OF OLEIC ACIDS (Ca, K, Na) |
| 551 | SILICON DIOXIDE (AMORPHOUS) |
| 262i | SODIUM ACETATE |
| 401 | SODIUM ALGINATE |

| INS No | Additive |
|---|---|
| 554 | SODIUM ALUMINOSILICATE |
| 301 | SODIUM ASCORBATE |
| 500i | SODIUM CARBONATE |
| 466 | SODIUM CARBOXYMETHYL CELLULOSE |
| 469 | SODIUM CARBOXYMETHYL CELLULOSE, ENZYMATICALLY HYDROLYZED |
| 331i | SODIUM DIHYDROGEN CITRATE |
| 316 | SODIUM ERYTHORBATE |
| 365 | SODIUM FUMARATE |
| 576 | SODIUM GLUCONATE |
| 500ii | SODIUM HYDROGEN CARBONATE |
| 350i | SODIUM HYDROGEN MALATE |
| 524 | SODIUM HYDROXIDE |
| 325 | SODIUM LACTATE |
| 350ii | SODIUM MALATE |
| 281 | SODIUM PROPIONATE |
| 500iii | SODIUM SESQUICARBONATE |
| 514 | SODIUM SULPHATE |
| 420 | SORBITOL (INCLUDING SORBITOL SYRUP) |
| 1420 | STARCH ACETATE |
| 1450 | STARCH SODIUM OCTENYL SUCCINATE |
| 553iii | TALC |
| 417 | TARA GUM |
| 472f | TARTARIC, ACETIC AND FATTY ACID ESTERS OF GLYCEROL (MIXED) |
| 957 | THAUMATIC |
| 171 | TITANIUM DIOXIDE |
| 413 | TRAGACANTH GUM |

| INS No | Additive |
|---|---|
| 1518 | TRIACETIN |
| 380 | TRIAMMONIUM CITRATE |
| 332ii | TRIPOTASSIUM CITRATE |
| 331iii | TRISODIUM CITRATE |
| 415 | XANTHAN GUM |
| 967 | XYLITOL |

# ANNEX TO TABLE 2

## Food categories or Individual Food Items Excluded from the General Conditions of Table 2

The use of additives listed in Table 2 in the following foods is governed by the provisions in Table 3

| Category Number | Food Category |
|---|---|
| 01.1.1 | Milk and Buttermilk (excluding heat – treated buttermilk) |
| 01.2 | Fermented and renneted milk products (plain) excluding food Category 01.1.2 (dairy based drinks) |
| 01.4.1 | Pasteurized cream |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams |
| 02.1 | Fats and oils essentially free from water |
| 02.2.1.1 | Butter and concentrated butter (Only butter) |
| 04.1.1 | Fresh fruit |
| 04.2.1 | Fresh vegetables (including mushrooms and fungi, roots and tubers, pulses and Legumes, and aloe vera),seaweed, and nuts ans seeds |
| 04.2.2.1 | Frozen vegetables (including mushrooms and fungi, roots and tubers, pulses and Legumes, and aloe vera), seaweeds, and nuts and seeds. |
| 04.2.2.7 | fermented vegetable(including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), and seaweed products, excluding fermented soybean products of food category 12.10 |
| 06.1 | Whole broken or flaked grain, including rice |
| 06.2 | Flours and starches |
| 06.4.1 | Fresh pastas and noodles and like products |
| 06.4.2 | Dried pastas and noodles and like products |
| 08.1 | Fresh meat, poultry, and game |
| 09.1 | fresh fish and fish products, including mollusks, crustaceans and echinoderms |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans and echinoderms |
| 10.1 | Fresh eggs |
| 10.2.1 | Liquid egg products |
| 10.2.2 | Frozen egg products |
| 11.1 | Refined and raw sugars |
| 11.2 | Brown sugar, excluding products of food category 11.1.3 (soft white sugar, soft brown sugar, glucose syrup, dried glucose syrup, raw cane sugar) |
| 11.3 | Sugar solutions and syrups, also (partially inverted, including treacle and molasses products of food category 11.3 (soft white sugar, brown sugar, glucose syrup, dried glucose syrup, raw cane sugar) |
| 11.4 | Other sugars and syrups (e.g., xylose, maple syrup, sugar toppings) |
| 11.5 | Honey |
| 12.1 | Salt and salt substitutes |
| 12.2.1 | Herbs and spices (Only herbs) |
| 13.1 | Infant formulae, follow up formulae, and formulae for special medical purposes For infants |
| 13.2 | Complementary foods for infants and young children |
| 14.1.1.1 | Natural minerals waters and source water (Only natural mineral waters) |
| 14.1.2 | Fruit and vegetable juices |
| 14.1.3 | Fruit and vegetable nectars |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal beverages, excluding cocoa |
| 14.2.3 | Grape wines |

# TABLE 3

## Additives Permitted for Use Under Specified Conditions in Certain Food Categories or Individual Food Items

### ACESULFAME POTASSIUM

Acesulfame Potassium INS: 9501

Function: Flavor Enhancer, Sweetener

| Food Cat. No. | Food Category | Max. Use level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 500 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.1 | Milk powder and cream powder (plain) | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 1000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 1000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 800 mg/kg | |
| 04.1.2.1 | Frozen fruit | 500 mg/kg | |
| 04.1.2.2 | Dried fruit | 500 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 200 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 500 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmalades | 1000 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 1000 mg/kg | |
| 04.1.2.7 | Candied fruit | 500 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 1000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 1000 mg/kg | |
| 04.1.2.10 | Fermented fruit products | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | 1000 mg/kg | |
| 04.1.2.12 | Cooked or fried fruit | 500 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy Sauce | 200 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 350 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 2500 mg/kg | |

ACESULFAME POTASSIUM

Function: Flavour Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 350 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | GMP | |
| 05.1.1 | Cocoa mixes (powders and syrups) | 2500 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 2500 mg/kg | |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 1000 mg/kg | |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 2500 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 3500 mg/kg | |
| 05.3 | Chewing gum | 5000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 1200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 350 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | GMP | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 1000 mg/kg | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 2000 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 1000 mg/kg | |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 600 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.4 | Egg-based desserts (e.g., custard) | 350 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 1000 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.3 | Vinegars | GMP | |
| 12.4 | Mustards | 350 mg/kg | |
| 12.5 | Soups and broths | 110 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 1000 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 350 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 350 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 350 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 1000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 450 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 450 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 500 mg/kg | |
| 13.6 | Food supplements | 2000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 600 mg/kg | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | 600 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 500 mg/kg | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | 500 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 600 mg/kg | |

ACESULFAME POTASSIUM

Function: Flavour Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.1 | Beer and malt beverages | 350 mg/kg | |
| 14.2.2 | Cider and perry | 350 mg/kg | |
| 14.2.3 | Wines | 350 mg/kg | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.5 | Mead | GMP | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | GMP | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 350 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 1000 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 1000 mg/kg | |
| 15.3 | Snacks - fish based | 350 mg/kg | |

## ACETIC ACID, GLACIAL

Acetic Acid, Glacial INS: 260

Function: Acidity Regulator, Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 12.8 | Yeast and like products | GMP | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |

## ACETIC AND FATTY ACID ESTERS OF GLYCEROL

Acetic and Fatty Acid Esters of Glycerol INS: 472a

Function: Emulsifier, Stabilizer, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 10000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 10000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 10000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |

ACETIC AND FATTY ACID ESTERS OF GLYCEROL

Function: Emulsifier, Stabilizer, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.1 | Salt | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 5000 mg/kg | Note 51 |
| 12.8 | Yeast and like products | 5000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## ACETYLATED DISTARCH ADIPATE

Acetylated Distarch Adipate INS: 1422

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 25000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 60000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## ACETYLATED DISTARCH PHOSPHATE

Acetylated Distarch Phosphate INS: 1414

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |

ACETYLATED DISTARCH PHOSPHATE

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.1 | Frozen vegetables | 10000 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 25000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 60000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |
| 14.2.3.4 | Aromatized wine | GMP | |

## ACID TREATED STARCH

Acid Treated Starch INS: 1401

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## ADIPATES

| | | | |
|---|---|---|---|
| Adipic Acid | INS: 355 | Sodium Adipate | INS: 356 |
| Potassium Adipate | INS: 357 | Ammonium Adipate | INS: 359 |

ADIPATES

Function: Acidity Regulator, Firming Agent, Raising Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | Note 1 |
| 01.3.2 | Beverage whiteners | 4500 mg/kg | Note 1 |
| 01.6.4 | Processed cheese | 5000 mg/kg | Note 1 |
| 01.6.5 | Cheese analogues | 5000 mg/kg | Note 1 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 6000 mg/kg | Note 1 |
| 02.1 | Fats and oils essentially free from water | 3000 mg/kg | Note 1 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | Note 1 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | Note 1 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 30000 mg/kg | Note 1 |
| 03.0 | Edible ices, including sherbet and sorbet | 2000 mg/kg | Note 1 |
| 04.1.2.5 | Jams, jellies and marmelades | 2000 mg/kg | Note 1 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 10000 mg/kg | Note 1 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 30000 mg/kg | Note 1 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 10000 mg/kg | Note 1 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 30000 mg/kg | Note 1 |
| 04.1.2.11 | Fruit fillings for pastries | 10000 mg/kg | Note 1 |
| 04.1.2.11 | Fruit fillings for pastries | 30000 mg/kg | Note 1 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 50000 mg/kg | Note 1 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 6000 mg/kg | Note 1 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 1000 mg/kg | Note 1 |
| 05.1.2 | Cocoa-based spreads, including fillings | 2000 mg/kg | Note 1 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 30000 mg/kg | Note 1 |
| 05.3 | Chewing gum | 20000 mg/kg | Note 1 |
| 05.3 | Chewing gum | 30000 mg/kg | Note 1 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | Note 1 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 30000 mg/kg | Note 1 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 1000 mg/kg | Note 1 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 10000 mg/kg | Note 1 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 30000 mg/kg | Note 1 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 1000 mg/kg | Note 1 |
| 07.0 | Bakery wares | 500 mg/kg | Note 1 |
| 07.0 | Bakery wares | 2000 mg/kg | Note 1 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 3000 mg/kg | Note 1 |
| 08.3 | Processed comminuted meat, poultry, and game products | 3000 mg/kg | Note 1 |
| 10.4 | Egg-based desserts (e.g., custard) | 10000 mg/kg | Note 1 |
| 10.4 | Egg-based desserts (e.g., custard) | 30000 mg/kg | Note 1 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 50000 mg/kg | Note 1 |
| 12.5 | Soups and broths | 20 mg/kg | Note 1 |
| 12.6 | Sauces and like products | 10000 mg/kg | Note 1 |
| 14.1.4.1 | Carbonated drinks | 2000 mg/kg | Note 1 |

ADIPATES

Function: Acidity Regulator, Firming Agent, Raising Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.4.2 | Non-carbonated, including punches and ades | 2000 mg/kg | Note 1 |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 10000 mg/kg | Note 1 |
| 14.2.1 | Beer and malt beverages | GMP | Note 1 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 13000 mg/kg | Note 1 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 1000 mg/kg | Notes 1 & 2 |

## AGAR

Agar INS: 406

Function: Bulking Agent, Emulsifier, Filler, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 4000 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 5000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 20000 mg/kg | Notes 3 & 53 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |

AGAR

Function: Bulking Agent, Emulsifier, Filler, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## ALGINIC ACID

Alginic Acid INS: 400

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 6000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 100 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 300 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |

## ALITAME

Alitame INS: 956

Function: Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 100 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 60 mg/kg | |
| 01.4 | Cream (plain) and the like | 100 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 100 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 100 mg/kg | |
| 05.0 | Confectionery | 300 mg/kg | |
| 07.0 | Bakery wares | 200 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 100 mg/kg | |
| 12.5 | Soups and broths | 40 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 40 mg/kg | |

## ALKALINE TREATED STARCH

Alkaline Treated Starch INS: 1402

Function: Bulking Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## ALLURA RED AC

Allura Red AC INS: 129

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 300 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 50 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 800 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 800 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |

ALLURA RED AC

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 348 mg/kg | |
| 05.3 | Chewing gum | 467 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 300 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | 300 mg/kg | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 2197 mg/kg | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 300 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 300 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 25 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.3.1 | Non-heat treated processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 25 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |

ALLURA RED AC

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.4.1 | Carbonated drinks | 300 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 300 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 1572 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## ALPHA-AMYLASE (ASPERGILLUS ORYZAE VAR.)

Alpha-Amylase (Aspergillus oryzae var.) INS: 1100

Function: Adjuvant, Enzyme, Flour Treatment Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.2 | Flours and starches | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |

## ALUMINUM AMMONIUM SULPHATE

Aluminium Ammonium Sulphate INS: 523

Function: Firming Agent, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.7 | Candied Fruit | 200 mg/kg | Note 6 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | Note 6 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g. vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | Note 6 |
| 06.2 | Flours and starches | GMP | Notes 6 & 26 |
| 09.2.4.1 | Cooked and /or fried fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | Note 6 |
| 10.2 | Egg products | 30 mg/kg | Note 6 |
| 10.4 | Egg-based desserts (e.g. custard) | 2000 mg/kg | Note 6 |
| 14.2.1 | Beer and malt beverages | GMP | Note 6 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat)-foods that could not be placed in categories | 2000 mg/kg | Notes 2 & 6 |

## ALUMINUM SILICATE

Aluminum Silicate INS: 559

Function: Adjuvant, Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 12.1 | Salt | 10000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g. seasoning for instant noodles) | 10000 mg/kg | Note 51 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.2.3 | Wines | GMP | |
| | Condiments (e.g. seasoning for instant noodles) | | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

**AMARANTH**

Amaranth INS: 123

Function: Colour

| Food Cat No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 300 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.4.2 | Flavoured processed cheese, including containing fruit, vegetables, meat, etc. | 100 mg/kg | Notes 5 & 72 |
| 01.7 | Dairy-based desserts (e.g. ice cream , ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmalades | 300 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 300 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 300 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 300 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 100 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3, and 05.4 | 100 mg/kg | |
| 05.3 | Chewing Gum | 300 mg/kg | |
| 05.4 | Decorations (e.g. for fine bakery wares), toppings (non fruit) and sweet sauces | 300 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 300 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 100 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 100 mg/kg | |
| 07.0 | Bakery wares | 300 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 09.2.4.1 | Cooked fish and fish products | 300 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans and echinoderms | 300 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | Note 22 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 300 mg/kg | Note 50 |
| 09.4 | Fully preserved , including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g. custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose, sugar solutions and syrups, also (partially) inverted sugars, incl. molasses treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g. brown sugar, maple syrup) | 300 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 300 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including, “sport” or “electrolyte’ drinks and particulated | 100 mg/kg | |
| 14.2.3.4 | Aromatized wine | 100 mg/kg | |
| 14.2.4 | Fruit wine | 30 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 30 mg/kg | |
| 15.1 | Snacks – potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |

## AMMONIUM ALGINATE

Ammonium Alginate INS: 403

Function: Emulsifier, Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 100 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 300 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |

## AMMONIUM CARBONATE

Ammonium Carbonate INS: 503i

Function: Acidity Regulator, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## AMMONIUM HYDROGEN CARBONATE

Ammonium Hydrogen Carbonate INS: 503ii

Function: Acidity Regulator, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.2 | Weaning foods for infants and growing children | GMP | |

## ANNATTO EXTRACTS

Annatto Extracts INS: 160b

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 50 mg/kg | Note 8 |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 50 mg/kg | |
| 01.6.1 | Unripened cheese | 50 mg/kg | Note 74 |
| 01.6.2.1 | Total ripened cheese, includes rind | 600 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | 50 mg/kg | Note 74 |
| 01.6.2.3 | Cheese powder (for reconstitution; e.g., for cheese sauces) | 50 mg/kg | Note 74 |

ANNATTO EXTRACTS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.3 | Whey cheese | 50 mg/kg | Note 74 |
| 01.6.4 | Processed cheese | 50 mg/kg | Note 74 |
| 01.6.5 | Cheese analogues | 50 mg/kg | Note 74 |
| 01.6.6 | Whey protein cheese | 50 mg/kg | Note 74 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 100 mg/kg | |
| 01.8 | Whey and whey products, excluding whey cheeses | 10 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 10 mg/kg | Note 9 |
| 02.2.1 | Emulsions containing at least 80% fat | 100 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 30 mg/kg | Note 9 |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 10 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | Note 9 |
| 04.1.1.2 | Surface-treated fresh fruit | 20 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 20 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 20 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 300 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 10 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | 200 mg/kg | Note 9 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 25 mg/kg | Note 9 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 25 mg/kg | Note 9 |
| 05.3 | Chewing gum | 1000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 30 mg/kg | Note 9 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 1000 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 75 mg/kg | Note 9 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 12 mg/kg | Note 8 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 10 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 40 mg/kg | Note 9 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.1 | Bread and ordinary bakery wares | GMP | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 15 mg/kg | Note 9 |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 40 mg/kg | Note 9 |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 15 mg/kg | Note 9 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 20 mg/kg | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 50 mg/kg | Note 9 |

ANNATTO EXTRACTS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Notes 9 & 78 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | Note 16 |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 50 mg/kg | Note 9 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 50 mg/kg | Note 9 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 20 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 60 mg/kg | Note 9 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | 20 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 10 mg/kg | Note 8 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 30 mg/kg | Note 9 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 10 mg/kg | Note 8 |
| 09.2.4.1 | Cooked fish and fish products | 30 mg/kg | Note 9 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 15 mg/kg | Note 9 |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 15 mg/kg | Note 9 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 15 mg/kg | Notes 9 & 22 |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 15 mg/kg | Note 9 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 10 mg/kg | Note 8 |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 10 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 30 mg/kg | Note 9 |
| 12.4 | Mustards | 100 mg/kg | Note 8 |
| 12.5 | Soups and broths | 150 mg/kg | Note 8 |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 100 mg/kg | Note 8 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 100 mg/kg | Note 8 |
| 12.6.3 | Mixes for sauces and gravies | 100 mg/kg | Note 8 |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 400 mg/kg | |
| 12.9 | Protein products | GMP | |
| 12.9 | Protein products | 10 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 50 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | Note 96 |
| 14.2.3 | Wines | GMP | |
| 14.2.6 | Spirituous beverages | 10 mg/kg | |

ANNATTO EXTRACTS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 15.0 | Ready-to-eat savouries | 300 mg/kg | Note 9 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 200 mg/kg | |

## ASCORBIC ACID

Ascorbic Acid INS: 300

Function: Antioxidant, Colour Retention Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1 | Fresh fruit | 500 mg/kg | |
| 04.2.1 | Fresh vegetables, and nuts and seeds | 500 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 100 mg/kg | |
| 06.2 | Flours and starches | 300 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | 2000 mg/kg | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 400 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 12.8 | Yeast and like products | 200 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 3000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 540 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 400 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 500 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 300 mg/kg | |
| 14.2.3 | Wines | 200 mg/kg | |

## ASCORBYL ESTERS

Ascorbyl Palmitate INS: 304 Ascorbyl Stearate INS: 305

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.3.2 | Beverage whiteners | 80 mg/kg | Note 10 |
| 01.5.1 | Milk powder and cream powder (plain) | 500 mg/kg | Note 10 |
| 01.5.2 | Milk and cream powder analogues | 80 mg/kg | Note 10 |
| 01.6.2.1 | Total ripened cheese, includes rind | 500 mg/kg | Note 10 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 500 mg/kg | Notes 2 & 10 |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 500 mg/kg | Note 10 |
| 02.1.2 | Vegetable oils and fats | 400 mg/kg | Note 10 |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 400 mg/kg | Note 10 |
| 02.2 | Fat emulsions mainly of type water-in-oil | 500 mg/kg | Note 10 |

ASCORBYL ESTERS

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 500 mg/kg | Note 10 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 80 mg/kg | Note 10 |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | Notes 10 & 15 |
| 04.1.2.2 | Dried fruit | 80 mg/kg | Note 10 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 500 mg/kg | Notes 2 & 10 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 80 mg/kg | Note 10 |
| 05.0 | Confectionery | 500 mg/kg | Notes 10 & 15 |
| 05.3 | Chewing gum | 3750 mg/kg | Note 10 |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | Note 10 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 10 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 500 mg/kg | Notes 2 & 10 |
| 07.0 | Bakery wares | 1000 mg/kg | Note 10 |
| 07.1.1 | Breads and rolls | 500 mg/kg | Note 10 |
| 07.2 | Fine bakery wares | 200 mg/kg | Note 10 |
| 08.4 | Edible casings (e.g., sausage casings) | 5000 mg/kg | Note 10 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 10 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 10 |
| 10.4 | Egg-based desserts (e.g., custard) | 500 mg/kg | Notes 2 & 10 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 500 mg/kg | Note 10 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 500 mg/kg | Note 10 |
| 12.1 | Salt | 500 mg/kg | Note 10 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | Note 10 |
| 12.4 | Mustards | 500 mg/kg | Note 10 |
| 12.5 | Soups and broths | 200 mg/kg | Note 10 |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 500 mg/kg | Notes 10 & 15 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 200 mg/kg | Note 10 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 500 mg/kg | Note 10 |
| 12.6.3 | Mixes for sauces and gravies | 200 mg/kg | Note 10 |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 200 mg/kg | Note 10 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 200 mg/kg | Note 10 |
| 12.8 | Yeast and like products | 200 mg/kg | Note 10 |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | Note 10 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | Note 10 |
| 13.2 | Weaning foods for infants and growing children | 1000 mg/kg | Note 10 |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1000 mg/kg | Note 10 |
| 13.6 | Food supplements | 500 mg/kg | Note 10 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Notes 10 & 15 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | Note 10 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 200 mg/kg | Note 10 |

# ASPARTAME

Aspartame INS: 951

Function: Flavor Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 600 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 2000 mg/kg | |
| 01.3.2 | Beverage whiteners | GMP | Note 2 |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 01.4.3 | Clotted cream | GMP | |
| 01.4.4 | Cream analogues | 1000 mg/kg | |
| 01.5.1 | Milk powder and cream powder (plain) | GMP | |
| 01.5.2 | Milk and cream powder analogues | 2000 mg/kg | |
| 01.5.3 | Milk and cream (blend) powder (plain and flavoured) | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.5 | Cheese analogues | 1000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 3000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 3000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 3000 mg/kg | |
| 04.1.2.1 | Frozen fruit | GMP | |
| 04.1.2.2 | Dried fruit | 3000 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 300 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 1000 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 1000 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 2000 mg/kg | |
| 04.1.2.7 | Candied fruit | 2000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 3000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 3000 mg/kg | |
| 04.1.2.10 | Fermented fruit products | 2000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 3000 mg/kg | |
| 04.1.2.12 | Cooked or fried fruit | 2000 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 1000 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 1000 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 300 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 1000 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 3000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 1000 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | 2500 mg/kg | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 1000 mg/kg | |
| 05.1.1 | Cocoa mixes (powders and syrups) | 3000 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 3000 mg/kg | |

ASPARTAME

Function: Flavor Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 2500 mg/kg | |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 3000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 10000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 1000 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 5000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 1000 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | 4000 mg/kg | |
| 07.2 | Fine bakery wares | 5000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 300 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 300 mg/kg | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 10.2.3 | Dried and/or heat coagulated egg products | 1000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 1000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 3000 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 1000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 2000 mg/kg | |
| 12.4 | Mustards | 350 mg/kg | |
| 12.5 | Soups and broths | 600 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 2000 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 2000 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 350 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 350 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 1000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 800 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 800 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 2000 mg/kg | |
| 13.6 | Food supplements | 5500 mg/kg | |
| 14.1.2 | Fruit and vegetable juices | 2000 mg/kg | |
| 14.1.3 | Fruit and vegetable nectars | 2000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.1 | Beer and malt beverages | 600 mg/kg | Note 85 |
| 14.2.2 | Cider and perry | 600 mg/kg | |
| 14.2.3 | Wines | 600 mg/kg | Note 85 |
| 14.2.4 | Fruit wine | 700 mg/kg | |
| 14.2.5 | Mead | 700 mg/kg | |
| 14.2.6 | Spirituous beverages | 700 mg/kg | Note 85 |
| 15.0 | Ready-to-eat savouries | 500 mg/kg | |

## AZORUBINE

Azorubine INS: 122

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 57 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 50 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |

AZORUBINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 50 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## BEESWAX, WHITE AND YELLOW

Beeswax, White and Yellow INS: 901

Function: Bulking Agent, Glazing Agent, Release Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |

BEESWAX, WHITE AND YELLOW

Function: Bulking Agent, Glazing Agent, Release Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 79 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 4000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 4000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.3 | Chewing gum | 150000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 4000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 07.2 | Fine bakery wares | 500 mg/kg | |
| 13.6 | Food supplements | GMP | Note 3 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 200 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 108 |
| 15.0 | Ready-to-eat savouries | GMP | Note 3 |

## BEET RED

Beet Red INS: 162

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |

BEET RED

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.2.3 | Wines | GMP | |

## BENZOATES

| | | | |
|---|---|---|---|
| Benzoic Acid | INS: 210 | Sodium Benzoate | INS: 211 |
| Potassium Benzoate | INS: 212 | Calcium Benzoate | INS: 213 |

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 50 mg/kg | Notes 12 & 13 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | Note 13 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 1000 mg/kg | Note 13 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 1000 mg/kg | Note 13 |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 1000 mg/kg | Note 13 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 1000 mg/kg | Note 13 |
| 04.1.2.2 | Dried fruit | 800 mg/kg | Note 13 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 1000 mg/kg | Note 13 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 1000 mg/kg | Note 13 |
| 04.1.2.5 | Jams, jellies and marmelades | 1000 mg/kg | Note 13 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 1000 mg/kg | Note 13 |
| 04.1.2.7 | Candied fruit | 1000 mg/kg | Note 13 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 1000 mg/kg | Note 13 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 1000 mg/kg | Note 13 |
| 04.1.2.10 | Fermented fruit products | 1000 mg/kg | Note 13 |
| 04.1.2.11 | Fruit fillings for pastries | 1000 mg/kg | Note 13 |
| 04.1.2.12 | Cooked or fried fruit | 1000 mg/kg | Note 13 |

BENZOATES

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 1000 mg/kg | Note 13 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 2000 mg/kg | Note 13 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 1000 mg/kg | Note 13 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 1000 mg/kg | Note 13 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 3000 mg/kg | Note 13 |
| 04.2.2.7 | Fermented vegetable products | 1000 mg/kg | Note 13 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 1000 mg/kg | Note 13 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 1500 mg/kg | Note 13 |
| 05.1.2 | Cocoa-based spreads, including fillings | 1500 mg/kg | Note 13 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 1500 mg/kg | Note 13 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 1500 mg/kg | Note 13 |
| 05.3 | Chewing gum | 1500 mg/kg | Note 13 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 1500 mg/kg | Note 13 |
| 06.2 | Flours and starches | 500 mg/kg | Note 13 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 1000 mg/kg | Note 13 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 1000 mg/kg | Note 13 |
| 07.0 | Bakery wares | 1000 mg/kg | Note 13 |
| 08.2.1.2 | Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts | GMP | Notes 3 & 13 |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 1000 mg/kg | Notes 13 & 16 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 750 mg/kg | Note 13 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Note 13 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 2000 mg/kg | Notes 13 & 82 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | Note 13 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 2000 mg/kg | Note 13 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 2000 mg/kg | Note 13 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 2500 mg/kg | Note 13 |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 2000 mg/kg | Note 13 |

BENZOATES

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 10.2.1 | Liquid egg products | 5000 mg/kg | Note 13 |
| 10.4 | Egg-based desserts (e.g., custard) | 1000 mg/kg | Note 13 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 1000 mg/kg | Note 13 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 1000 mg/kg | Note 13 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | Note 13 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 1000 mg/kg | Note 13 |
| 12.3 | Vinegars | 1000 mg/kg | Note 13 |
| 12.4 | Mustards | 1000 mg/kg | Note 13 |
| 12.5 | Soups and broths | 1000 mg/kg | Note 13 |
| 12.6 | Sauces and like products | 1000 mg/kg | Note 13 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 1500 mg/kg | Note 13 |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1500 mg/kg | Notes 13 & 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 1500 mg/kg | Note 13 |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 2000 mg/kg | Note 13 |
| 13.6 | Food supplements | 1000 mg/kg | Note 13 |
| 14.1.1.2 | Table waters and soda waters | 200 mg/kg | Note 13 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2100 mg/kg | Note 13 |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | 2000 mg/kg | Note 13 |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 2100 mg/kg | Note 13 |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | 1400 mg/kg | Note 13 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 2000 mg/kg | Note 13 |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | 2000 mg/kg | Note 13 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 1000 mg/kg | Note 13 |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 500 mg/kg | Note 13 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 13 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 600 mg/kg | Note 13 |
| 14.2.1 | Beer and malt beverages | 200 mg/kg | Notes 13 & 85 |
| 14.2.2 | Cider and perry | 1000 mg/kg | Note 13 |
| 14.2.3 | Wines | 1000 mg/kg | Notes 13 & 96 |
| 14.2.4 | Fruit wine | 1000 mg/kg | Note 13 |

BENZOATES

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.5 | Mead | 1000 mg/kg | Note 13 |
| 14.2.6 | Spirituous beverages | 400 mg/kg | Notes 13 & 85 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 1000 mg/kg | Note 13 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 1000 mg/kg | Note 13 |

## BENZOYL PEROXIDE

Benzoyl Peroxide INS: 928

Function: Bleaching Agent (Not for Flour), Flour Treatment Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.2.1 | Total ripened cheese, includes rind | 1000 mg/kg | Note 55 |
| 01.8 | Whey and whey products, excluding whey cheeses | GMP | |
| 06.2 | Flours and starches | 300 mg/kg | |

## BHA

Butylated Hydroxyanisole INS: 320

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.3.1 | Condensed milk (plain) | 200 mg/kg | Note 88 |
| 01.3.2 | Beverage whiteners | 100 mg/kg | |
| 01.5.1 | Milk powder and cream powder (plain) | 200 mg/kg | Note 15 |
| 01.5.2 | Milk and cream powder analogues | 100 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 2 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 200 mg/kg | Note 15 |
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | Note 15 |
| 02.2 | Fat emulsions mainly of type water-in-oil | 200 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 200 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 100 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | Note 15 |
| 04.1.2.2 | Dried fruit | 100 mg/kg | |
| 04.1.2.2 | Dried fruit | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 100 mg/kg | |
| 04.1.2.7 | Candied fruit | 32 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 2 mg/kg | |
| 04.1.2.12 | Cooked or fried fruit | 100 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 200 mg/kg | Note 76 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | |

BHA

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 200 mg/kg | Note 15 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 200 mg/kg | Note 15 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 100 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 100 mg/kg | |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 90 mg/kg | Note 2 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 100 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 100 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | Note 15 |
| 05.3 | Chewing gum | 750 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 90 mg/kg | Note 2 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 200 mg/kg | Note 15 |
| 06.1 | Whole, broken, or flaked grain, including rice | 100 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | Note 15 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 100 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 2 mg/kg | |
| 07.0 | Bakery wares | 200 mg/kg | Note 15 |
| 07.1.1 | Breads and rolls | 50 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 50 mg/kg | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 100 mg/kg | |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 50 mg/kg | |
| 07.1.5 | Steamed breads and buns | 50 mg/kg | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 25 mg/kg | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 25 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 200 mg/kg | Note 15 |
| 08.1 | Fresh meat, poultry, and game | 100 mg/kg | Note 15 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 200 mg/kg | Note 15 |
| 08.3 | Processed comminuted meat, poultry, and game products | 200 mg/kg | Note 15 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | Note 15 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 2 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 20 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 200 mg/kg | Note 15 |
| 12.4 | Mustards | 200 mg/kg | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 200 mg/kg | Note 15 |

BHA

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.5.2 | Mixes for soups and broths | 300 mg/kg | Note 15 |
| 12.6 | Sauces and like products | 200 mg/kg | Note 15 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 200 mg/kg | |
| 12.8 | Yeast and like products | 1000 mg/kg | |
| 13.6 | Food supplements | 400 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 15 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | Note 15 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 200 mg/kg | Note 15 |

## BHT

Butylated Hydroxytoluene INS: 321

Function: Adjuvant, Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.3.1 | Condensed milk (plain) | 200 mg/kg | Note 88 |
| 01.3.2 | Beverage whiteners | 100 mg/kg | |
| 01.5 | Milk powder and cream powder | 100 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 90 mg/kg | Note 2 |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 200 mg/kg | Note 15 |
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | Note 15 |
| 02.2.1 | Emulsions containing at least 80% fat | 200 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 500 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 100 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 200 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 100 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | Note 15 |
| 04.1.2.2 | Dried fruit | 100 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 100 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 90 mg/kg | Note 2 |
| 04.1.2.12 | Cooked or fried fruit | 100 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 200 mg/kg | Note 76 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 200 mg/kg | Note 15 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 200 mg/kg | Note 15 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 90 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | Note 15 |
| 05.3 | Chewing gum | 750 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 200 mg/kg | Note 15 |
| 06.1 | Whole, broken, or flaked grain, including rice | 200 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 50 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 200 mg/kg | |

BHT

Function: Adjuvant, Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 90 mg/kg | Note 2 |
| 07.0 | Bakery wares | 200 mg/kg | Note 15 |
| 07.1.1 | Breads and rolls | 50 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 50 mg/kg | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 200 mg/kg | |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 50 mg/kg | |
| 07.1.5 | Steamed breads and buns | 50 mg/kg | |
| 07.2 | Fine bakery wares | 25 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 90 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | 100 mg/kg | Note 15 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 100 mg/kg | Note 15 |
| 08.3 | Processed comminuted meat, poultry, and game products | 100 mg/kg | Note 15 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | Note 15 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 90 mg/kg | Note 2 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 20 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 200 mg/kg | Note 15 |
| 12.4 | Mustards | 100 mg/kg | |
| 12.5 | Soups and broths | 100 mg/kg | |
| 12.5 | Soups and broths | 200 mg/kg | Note 15 |
| 12.6 | Sauces and like products | 100 mg/kg | |
| 12.6 | Sauces and like products | 200 mg/kg | Note 15 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 100 mg/kg | |
| 12.8 | Yeast and like products | 100 mg/kg | |
| 13.6 | Food supplements | 400 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 15 |
| 15.0 | Ready-to-eat savouries | 200 mg/kg | Note 15 |

## BLEACHED STARCH

Bleached Starch INS: 1403

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |

BLEACHED STARCH

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## BRILLIANT BLACK PN

Brilliant Black PN INS: 151

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 12 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |

BRILLIANT BLACK PN

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## BRILLIANT BLUE FCF

Brilliant Blue FCF INS: 133

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 150 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 100 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 244 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | 100 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |

BRILLIANT BLUE FCF

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 100 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 100 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## BROMELAIN

Bromelain INS: 1101iii

Function: Flavour Enhancer, Flour Treatment Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 14.2.3 | Wines | GMP | |

## BROWN HT

Brown HT INS: 155

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 50 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 80 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |

BROWN HT

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 50 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## CALCIUM ACETATE

Calcium Acetate INS: 263

Function: Acidity Regulator, Preservative, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 1500 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 1500 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## CALCIUM ALGINATE

Calcium Alginate INS: 404

Function: Antifoaming Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 6000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 100 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 10.2.1 | Liquid egg products | 6000 mg/kg | |
| 10.2.2 | Frozen egg products | 6000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 300 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.2.3 | Wines | 4000 mg/kg | |

## CALCIUM ALUMINIUM SILICATE (SYNTHETIC)

Calcium Aluminium Silicate (Synthetic) INS: 556

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.2.3 | Wines | GMP | |

## CALCIUM ASCORBATE

Calcium Ascorbate INS: 302

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1 | Fresh fruit | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 400 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 15 |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 3000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 300 mg/kg | |
| 14.2.3 | Wines | GMP | |

## CALCIUM CARBONATE

Calcium Carbonate INS: 170i

Function: Anticaking Agent, Acidity Regulator, Colour, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | 2220 mg/kg | |
| 06.2 | Flours and starches | GMP | Note 57 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1500 mg/kg | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |

CALCIUM CARBONATE

Function: Anticaking Agent, Acidity Regulator, Colour, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.1 | Salt | 20000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.2.3 | Wines | 3500 mg/kg | |

## CALCIUM CHLORIDE

Calcium Chloride INS: 509

Function: Firming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.2.1 | Frozen vegetables | 4000 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 15000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 3200 mg/kg | |

## CALCIUM CITRATE

Calcium Citrate INS: 333

Function: Acidity Regulator,Antioxidant, Emulsifier, Firming Agent, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## CALCIUM GLUCONATE

Calcium Gluconate INS: 578

CALCIUM GLUCONATE

Function: Acidity Regulator, Firming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.2.1 | Frozen vegetables | 1000 mg/kg | Note 58 |

## CALCIUM GLUTAMATE, Dl-L-

Calcium Glutamate, Dl-L- INS: 623

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## CALCIUM GUANYLATE, 5'-

Calcium Guanylate, 5'- INS: 629

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## CALCIUM HYDROXIDE

Calcium Hydroxide INS: 526

Function: Acidity Regulator, Firming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Note 52 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.2.1 | Frozen vegetables | 1000 mg/kg | Note 58 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## CALCIUM INOSINATE, 5'-

Calcium Inosinate, 5'- INS: 633

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## CALCIUM LACTATE

Calcium Lactate INS: 327

CALCIUM LACTATE

Function: Acidity Regulator, Antioxidant, Emulsifier, Firming Agent, Stabilzer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 6000 mg/kg | |
| 12.1 | Salt | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## CALCIUM MALATE

Calcium Malate INS: 352ii

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.3 | Wines | GMP | |

## CALCIUM OXIDE

Calcium Oxide INS: 529

Function: Acidity Regulator, Flour Treatment Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |

## CALCIUM RIBONUCLEOTIDES, 5'-

Calcium Ribonucleotides, 5'- INS: 634

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## CALCIUM SILICATE

Calcium Silicate INS: 552

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |

## CALCIUM SULPHATE

Calcium Sulphate INS: 516

Function: Acidity Regulator, Bulking Agent, Firming Agent, Flour Treatment Agent, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

CALCIUM SULPHATE

Function: Acidity Regulator, Bulking Agent, Firming Agent, Flour Treatment Agent, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 800 mg/kg | Note 58 |
| 04.2.2.1 | Frozen vegetables | 3500 mg/kg | |
| 06.2 | Flours and starches | GMP | Note 57 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 5000 mg/kg | Note 54 |
| 14.2.3 | Wines | 2000 mg/kg | |

## CANDELILLA WAX

Candelilla Wax INS: 902

Function: Bulking Agent, Carrier Solvent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 79 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 4000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 4000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.3 | Chewing gum | 150000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 4000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 07.2 | Fine bakery wares | GMP | Note 3 |
| 13.6 | Food supplements | GMP | Note 3 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 200 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 108 |
| 15.0 | Ready-to-eat savouries | GMP | Note 3 |

## CANTHAXANTHIN

Canthaxanthin INS: 161g

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.6 | Cheese | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | GMP | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |

CANTHAXANTHIN

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 8.2 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 50 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | 35 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.0 | Bakery wares | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 100 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 15 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.1 | Cooked fish and fish products | 200 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 30 mg/kg | |
| 12.5.2 | Mixes for soups and broths | 100 mg/kg | |
| 12.6 | Sauces and like products | 100 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 5 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 5 mg/kg | |

CANTHAXANTHIN

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 5 mg/kg | |
| 14.1.4.1 | Carbonated drinks | GMP | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 5 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 100 mg/kg | |
| 14.2.1 | Beer and malt beverages | 5 mg/kg | |
| 14.2.3 | Wines | 5 mg/kg | |
| 14.2.6 | Spirituous beverages | 5 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | Note 2 |

## CARAMEL COLOUR, CLASS I

Caramel Colour, Class I - Plain INS: 150a

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 150 mg/kg | Note 12 |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.2.3 | Wines | GMP | |

# CARAMEL COLOUR, CLASS III

Caramel Colour, Class III - Ammonia Process INS: 150c

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 150 mg/kg | Note 12 |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4.3 | Clotted cream | GMP | |
| 01.4.4 | Cream analogues | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | GMP | |
| 01.6.5 | Cheese analogues | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 2000 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | GMP | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 7500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | 7500 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | GMP | Note 76 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 04.2.2.7 | Fermented vegetable products | GMP | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | GMP | |
| 05.1.2 | Cocoa-based spreads, including fillings | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | |
| 05.3 | Chewing gum | 20000 mg/kg | |

CARAMEL COLOUR, CLASS III

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | 6500 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.1.2 | Crackers, excluding sweet crackers | GMP | |
| 07.2 | Fine bakery wares | GMP | |
| 08.0 | Meat and meat products, including poultry and game | GMP | Note 3 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 3 & 50 |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 50 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | Note 50 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 50 |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.3 | Vinegars | 1000 mg/kg | |
| 12.4 | Mustards | GMP | |
| 12.5 | Soups and broths | GMP | |
| 12.6 | Sauces and like products | 1500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | GMP | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | GMP | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.2 | Fruit and vegetable juices | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.0 | Ready-to-eat savouries | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |

CARAMEL COLOUR, CLASS III

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 1000 mg/kg | |

## CARAMEL COLOUR, CLASS IV

Caramel Colour, Class IV - Ammonia Sulphite Process INS: 150d

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 150 mg/kg | Note 12 |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4.3 | Clotted cream | GMP | |
| 01.4.4 | Cream analogues | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 100 mg/kg | |
| 01.6.4.1 | Plain processed cheese | GMP | |
| 01.6.4.2 | Flavoured processed cheese, including containing fruit, vegetables, meat, etc. | 100 mg/kg | Notes 5 & 72 |
| 01.6.5 | Cheese analogues | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 2000 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | 1500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 7500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | 7500 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | GMP | Note 76 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |

CARAMEL COLOUR, CLASS IV

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 04.2.2.7 | Fermented vegetable products | GMP | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | GMP | |
| 05.1.2 | Cocoa-based spreads, including fillings | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | 2500 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 06.7 | Rice cakes (Oriental type only) | GMP | |
| 07.1.2 | Crackers, excluding sweet crackers | GMP | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | GMP | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 1200 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | GMP | |
| 08.0 | Meat and meat products, including poultry and game | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 3 & 50 |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 50 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | Note 50 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 50 |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.3 | Vinegars | GMP | |
| 12.3 | Vinegars | 1000 mg/kg | |
| 12.4 | Mustards | GMP | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 3000 mg/kg | |
| 12.5.2 | Mixes for soups and broths | GMP | |
| 12.6 | Sauces and like products | 1500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | GMP | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | GMP | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.2 | Fruit and vegetable juices | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |

## CARAMEL COLOUR, CLASS IV

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1..3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.1 | Beer and malt beverages | 240 mg/kg | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | GMP | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 240 mg/kg | |
| 15.0 | Ready-to-eat savouries | GMP | |
| 15.1 | Snacks- potato, cereal, flour or starch based (from roots and tubers, pulses, and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) GMP | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, | 1000 mg/kg | |

## CARBON DIOXIDE

Carbon Dioxide INS: 290

Function: Adjuvant, Carbonating Agent, Packing Gas

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | Note 59 |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | GMP | Note 59 |
| 01.4.1 | Pasteurized cream | GMP | Note 59 |
| 01.4.2 | Sterilized, UHT, whipping or whipped , and reduced fat creams | GMP | Note 59 |
| 04.1.1 | Fresh fruit | GMP | Note 59 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | Note 59 |
| 04.2.2.1 | Frozen Vegetables | GMP | Note 59 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 100 mg/kg | Note 59 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 59 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 59 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | Note 69 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 3000 mg/kg | Note 59 & 69 |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 3000 mg/kg | Note 59 & 69 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 3000 mg/kg | Notes 59 & 69 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 3000 mg/kg | Notes 59 & 69 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 59 |
| 4.2.3 | Wines | GMP | Note 60 |

# CARMINES

Carmines INS: 120

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 20 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.1 | Total ripened cheese, includes rind | 125 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4.2 | Flavoured processed cheese, including containing fruit, vegetables, meat, etc. | 100 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2 | Fat emulsions mainly of type water-in-oil | GMP | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 300 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 1020 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.1 | Bread and ordinary bakery wares | GMP | |
| 07.2 | Fine bakery wares | 200 mg/kg | |

CARMINES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 100 mg/kg | |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 100 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 100 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 50 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |

CARMINES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | Note 96 |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.1 | Still wine | GMP | Note 96 |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | Note 96 |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## CARNAUBA WAX

Carnauba Wax INS: 903

Function: Anticaking Agent, Adjuvant, Bulking Agent, Carrier Solvent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.2 | Processed fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 79 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 4000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 4000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 100000 mg/kg | |
| 05.3 | Chewing gum | 150000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 4000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 07.0 | Bakery wares | GMP | |
| 12.6 | Sauces and like products | GMP | |
| 13.6 | Food supplements | GMP | Note 3 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 200 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 108 |
| 15.0 | Ready-to-eat savouries | GMP | Note 3 |

## CAROB BEAN GUM

Carob Bean Gum INS: 410

CAROB BEAN GUM

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.1 | Milk, including sterilized and UHT goats milk | GMP | |
| 01.1.1.2 | Buttermilk (plain) | 5000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 10.2.3 | Dried and/or heat coagulated egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 20000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

## CAROTENES, VEGETABLE

Carotenes, Natural Extracts, (Vegetable) INS: 160aii

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |

CAROTENES, VEGETABLE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6 | Cheese | 600 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 600 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | GMP | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | GMP | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 4 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | 4 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 04.2.2.7 | Fermented vegetable products | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 120 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 500 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 120 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 500 mg/kg | |
| 05.3 | Chewing gum | 500 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | 400 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 07.2 | Fine bakery wares | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | GMP | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Note 78 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |

CAROTENES, VEGETABLE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | GMP | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | GMP | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | GMP | Note 16 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.4 | Mustards | GMP | |
| 12.5 | Soups and broths | GMP | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | GMP | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | GMP | |
| 12.6.3 | Mixes for sauces and gravies | GMP | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | GMP | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | GMP | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 2000 mg/kg | |
| 14.2.2 | Cider and perry | GMP | |

CAROTENES, VEGETABLE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 25 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | |

## CAROTENOIDS

| | | | |
|---|---|---|---|
| Beta-Carotene (Synthetic) | INS: 160ai | Beta-Apo-8'-Carotenal | INS: 160e |
| Beta-Apo-8'-Carotenoic Acid, Methyl or Ethyl Ester | INS: 160f | | |

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 100 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | 35 mg/kg | |
| 01.6.2.1 | Total ripened cheese, includes rind | 600 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.2.3 | Cheese powder (for reconstitution; e.g., for cheese sauces) | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.6.6 | Whey protein cheese | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 25 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 1000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 100 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 1000 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 25 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 1000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 1000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |

CAROTENOIDS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 10 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | GMP | Note 76 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 500 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 500 mg/kg | |
| 05.3 | Chewing gum | 500 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 500 mg/kg | |
| 07.1.1 | Breads and rolls | 35 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | GMP | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | GMP | |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | GMP | |
| 07.1.5 | Steamed breads and buns | GMP | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | |

CAROTENOIDS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.2 | Egg products | GMP | |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 35 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 100 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 35 mg/kg | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | 100 mg/kg | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 100 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | Note 96 |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.1 | Still wine | GMP | Note 96 |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | Note 96 |

CAROTENOIDS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## CARRAGEENAN

Carrageenan INS: 407

Function: Emulsifier, Filler, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.1 | Milk, including sterilized and UHT goats milk | 10000 mg/kg | |
| 01.1.1.2 | Buttermilk (plain) | 6000 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 5000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 500 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 8330 mg/kg | Notes 37 & 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 3000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 3000 mg/kg | |

## CARRAGEENAN

Function: Emulsifier, Filler, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 1000 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | | |

## CASTOR OIL

Castor Oil INS: 1503

Function: Anticaking Agent, Carrier Solvent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 500 mg/kg | |
| 05.3 | Chewing Gum | GMP | |
| 05.3 | Chewing Gum | 2100 mg/kg | |
| 05.4 | Decorations (e.g. for fine bakery wares), toppings (non fruit) and sweet sauces | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including “spot” or “electrolyte” drinks and particulated drinks | 500 mg/kg | |

## CHLOROPHYLLS

CHLOROPHYLLS INS: 140

Function: Anticaking Agent, Carrier Solvent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Notes 4 & 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |

CHLOROPHYLLS

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.2.3 | Wines | GMP | |

## CHLOROPHYLLS, COPPER COMPLEXES

| Chlorophylls, Copper Complex | INS: 141i | Chlorophyllin Copper Complex, Sodium and Potassium Salts | INS: 141ii |
|---|---|---|---|

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6 | Cheese | 15 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.1 | Frozen fruit | 100 mg/kg | Note 62 |
| 04.1.2.2 | Dried fruit | 100 mg/kg | Note 62 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 100 mg/kg | Note 62 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 100 mg/kg | Note 62 |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 100 mg/kg | Note 62 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 100 mg/kg | Note 62 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 100 mg/kg | Note 62 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | Note 62 |
| 04.1.2.10 | Fermented fruit products | 100 mg/kg | Note 62 |
| 04.1.2.11 | Fruit fillings for pastries | 100 mg/kg | Note 62 |
| 04.1.2.12 | Cooked or fried fruit | 100 mg/kg | Note 62 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.1 | Frozen vegetables | 100 mg/kg | Note 62 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 100 mg/kg | Notes 62 & 89 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 100 mg/kg | Note 62 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | Note 62 |

CHLOROPHYLLS, COPPER COMPLEXES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 100 mg/kg | Note 62 |
| 04.2.2.7 | Fermented vegetable products | 100 mg/kg | Note 62 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 100 mg/kg | Note 62 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 30 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 700 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 700 mg/kg | |
| 05.3 | Chewing gum | 700 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 6.4 mg/kg | Note 62 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 6.4 mg/kg | Note 62 |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | GMP | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | GMP | |
| 08.0 | Meat and meat products, including poultry and game | GMP | Note 16 |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 30 mg/kg | Note 62 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 40 mg/kg | Note 62 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 40 mg/kg | Note 62 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | GMP | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | GMP | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | GMP | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 64 mg/kg | Note 62 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.4 | Mustards | GMP | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 400 mg/kg | |
| 12.5.2 | Mixes for soups and broths | GMP | |

CHLOROPHYLLS, COPPER COMPLEXES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.6 | Sauces and like products | GMP | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.0 | Foodstuffs intended for particular nutritional uses | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 300 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | Note 96 |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3 | Wines | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | |

## CITRIC ACID

Citric Acid INS: 330

Function: Acidity Regulator, Antioxidant, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | 1500 mg/kg | Note 63 |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | 100 mg/kg | Note 15 |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 2000 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 100 mg/kg | Note 15 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 12.1 | Salt | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | 25000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |

CITRIC ACID

Function: Acidity Regulator, Antioxidant, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 5000 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 5000 mg/kg | |
| 14.2.3 | Wines | 700 mg/kg | |

## CITRIC AND FATTY ACID ESTERS OF GLYCEROL

Citric and Fatty Acid Esters of Glycerol INS: 472c

Function: Antioxidant, Emulsifier, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 10000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## CURCUMIN

Curcumin INS: 100i

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |

CURCUMIN

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.2.1 | Total ripened cheese, includes rind | GMP | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.6.6 | Whey protein cheese | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 5 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 10 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 5 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | GMP | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 700 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.1 | Bread and ordinary bakery wares | GMP | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | Note 16 |

CURCUMIN

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Note 78 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 20 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | Note 96 |

**CURCUMIN**

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.2 | Cider and Perry | 200 mg/kg | |
| 14.2.3.1 | Still Wine | GMP | Note 96 |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | Note 96 |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks – potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut Mixtures (with e.g. dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mince meat) – foods that could not be placed in categories 01 -15 | 500 mg/kg | |

## CYCLODEXTRIN, BETA-

Cyclodextrin, Beta- INS: 459

Function: Stabilizer, Binder

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.3 | Chewing gum | 20000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 500 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 500 mg/kg | |

## DEXTRINS, WHITE AND YELLOW, ROASTED STARCH

Dextrins, White and Yellow Roasted Starch INS: 1400

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 20000 mg/kg | Notes 3 & 53 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 90 |

# DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

Diacetyltartaric and Fatty Acid Esters of Glycerol INS: 472e

Function: Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.4.3 | Clotted cream | GMP | |
| 01.4.4 | Cream analogues | GMP | |
| 01.5.1 | Milk powder and cream powder (plain) | 10000 mg/kg | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.2.1 | Total ripened cheese, includes rind | GMP | |
| 01.6.4 | Processed cheese | GMP | |
| 01.6.5 | Cheese analogues | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 10000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 10000 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 5000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 10000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 5000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.2 | Dried fruit | GMP | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | GMP | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.10 | Fermented fruit products | GMP | |
| 04.1.2.12 | Cooked or fried fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | GMP | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 04.2.2.7 | Fermented vegetable products | GMP | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

Function: Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 50000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 06.2 | Flours and starches | 5000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 5000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 10000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 5000 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.0 | Bakery wares | 10000 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 08.2.1 | Non-heat treated processed meat, poultry, and game products in whole pieces or cuts | GMP | |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | GMP | |
| 08.2.3 | Frozen processed meat, poultry, and game products in whole pieces or cuts | GMP | Note 16 |
| 08.3.1 | Non-heat treated processed comminuted meat, poultry, and game products | GMP | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | GMP | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.3 | Dried and/or heat coagulated egg products | GMP | |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 1 mg/kg | |
| 12.3 | Vinegars | GMP | |
| 12.4 | Mustards | 10000 mg/kg | |
| 12.5 | Soups and broths | GMP | |
| 12.6 | Sauces and like products | 10000 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |

DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL

Function: Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.9 | Protein products | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | GMP | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | GMP | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | GMP | |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |

## DIMETHYL DICARBONATE

Dimethyl Dicarbonate INS: 242

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 250 mg/kg | Note 18 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 250 mg/kg | Notes 2 & 18 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 250 mg/kg | Note 18 |
| 14.2.2 | Cider and perry | 250 mg/kg | Note 18 |
| 14.2.3 | Wines | 200 mg/kg | Note 18 |
| 14.2.4 | Fruit wine | 250 mg/kg | Note 18 |
| 14.2.5 | Mead | 200 mg/kg | Note 18 |

## DIOCTYL SODIUM SULFOSUCCINATE

Dioctyl Sodium Sulfosuccinate INS: 480

Function: Adjuvant, Emulsifier, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 25 mg/kg | Note 19 |
| 01.3.1 | Condensed milk (plain) | GMP | |
| 01.6.1 | Unripened cheese | 5000 mg/kg | Note 20 |
| 01.6.4 | Processed cheese | 5000 mg/kg | Note 20 |

DIOCTYL SODIUM SULFOSUCCINATE

Function: Adjuvant, Emulsifier, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 15 mg/kg | |
| 05.1.1 | Cocoa mixes (powders and syrups) | 4000 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 200 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 25 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 5000 mg/kg | Note 20 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 10 mg/kg | |
| 14.2 | Alcoholic beverages, including alcohol-free and low-alcoholic counterparts | 10 mg/kg | |

## DIPHENYL

Diphenyl INS: 230

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | 70 mg/kg | Note 49 |

## DIPOTASSIUM GUANYLATE, 5'-

Dipotassium Guanylate, 5'- INS: 628

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## DIPOTASSIUM INOSINATE, 5'-

Dipotassium Inosinate, 5'- INS: 632

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## DISODIUM GUANYLATE, 5'-

Disodium Guanylate, 5'- INS: 627

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## DISODIUM INOSINATE, 5'-

Disodium Inosinate, 5'- INS: 631

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## DISODIUM RIBONUCLEOTIDES, 5'-

Disodium Ribonucleotides, 5'- INS: 635

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## DISTARCH PHOSPHATE

Distarch Phosphate INS: 1412

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 25000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 60000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## EDTAs

Calcium Disodium Ethylene Diamine Tetra Acetate INS: 385 Disodium Ethylene Diamine Tetra Acetate INS: 386

Function: Antioxidant, Preservative, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.2.1.2/8 | Margarine and similar products (e.g., butter-margarine blends) | 75 mg/kg | Note 21 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 100 mg/kg | Note 21 |
| 04.1.2.2 | Dried fruit | 265 mg/kg | Note 21 |
| 04.1.2.5 | Jams, jellies and marmelades | 130 mg/kg | Note 21 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 100 mg/kg | Note 21 |
| 04.1.2.11 | Fruit fillings for pastries | 650 mg/kg | Note 21 |

EDTAs

Function: Antioxidant, Preservative, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.1 | Frozen vegetables | 250 mg/kg | Notes 21 & 110 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 800 mg/kg | Notes 21& 64 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 250 mg/kg | Note 21 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 365 mg/kg | Note 21 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 250 mg/kg | Note 21 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 80 mg/kg | Note 21 |
| 04.2.2.7 | Fermented vegetable products | 250 mg/kg | Note 21 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 250 mg/kg | Note 21 |
| 05.1.2 | Cocoa-based spreads, including fillings | 50 mg/kg | Note 21 |
| 06.5/8 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 315 mg/kg | Note 21 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 35 mg/kg | Note 21 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 75 mg/kg | Note 21 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 75 mg/kg | Note 21 |
| 09.2.4.1 | Cooked fish and fish products | 50 mg/kg | Note 21 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 250 mg/kg | Note 21 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 340 mg/kg | Note 21 |
| 10.2.3 | Dried and/or heat coagulated egg products | 200 mg/kg | Notes 21 & 47 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 1000 mg/kg | Note 21 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 70 mg/kg | Note 21 |
| 12.4 | Mustards | 75 mg/kg | Note 21 |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 100 mg/kg | Note 21 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 75 mg/kg | Note 21 |
| 12.6.3 | Mixes for sauces and gravies | 75 mg/kg | Note 21 |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 75 mg/kg | Note 21 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 100 mg/kg | Note 21 |
| 13.6 | Food supplements | 150 mg/kg | Note 21 |
| 14.1.4.1 | Carbonated drinks | 200 mg/kg | Note 21 |
| 14.1.4.2 | Non-carbonated, including punches and ades | 200 mg/kg | Note 21 |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 100 mg/kg | Note 21 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 35 mg/kg | Note 21 |
| 14.2 | Alcoholic beverages, including alcohol-free and low-alcoholic counterparts | 25 mg/kg | Note 21 |

## ENZYME TREATED STARCH

Enzyme Treated Starch INS: 1405

Function: Bulking Agent, Emulsifier, Stabilzer,Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | GMP | |

ENZYME TREATED STARCH
Function: Bulking Agent, Emulsifier, Stabilizer,Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mglkg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## ERYTHORBIC ACID

Erythorbic Acid INS: 315 Isoascorbic Acid INS: 315
Function: Antioxidant, Colour Rentention Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 100 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 100 mg/kg | Note 52 |
| 04.1.1 | Fresh fruit | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1500 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note15 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## ERYTHROSINE

Erythrosine INS: 127
Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 300 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 300 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 27 mg/kg | Note 12 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.4.2 | Flavoured processed cheese, including containing fruit, vegetables, meat, etc. | 100 mg/kg | Notes 5 & 72 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 300 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 400 mg/kg | |

ERYTHROSINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 300 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 300 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 300 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 300 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 100 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 200 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 300 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 300 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 07.0 | Bakery wares | 300 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | GMP | Notes 3 & 4 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 30 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 30 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 09.2.4.1 | Cooked fish and fish products | 300 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 300 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 300 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 300 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 300 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | Note 92 |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 300 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |

ERYTHROSINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories | 300 mg/kg | Note 2 |

## ETHYL MALTOL

Ethyl Maltol INS: 637

Function: Flavor Enhancer, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 200 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 1000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | |
| 05.3 | Chewing gum | 1000 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport"or "electrolyte" drinks and particulated drinks | 200 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 200 mg/kg | |
| 14.2.2 | Cider and pent' | 100 mg/kg | |
| 14.2.3 | Wines | 100 mg/kg | Note 93 |
| 14.2.4 | Fruit wine | 100 mg/kg | |

## FAST GREEN FCF

Fast Green FCF INS: 143

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 100 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 100 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 100 mg/kg | Note 2 |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 100 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 400 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 100 mg/kg | |
| 04.1.2.7 | Candied fruit | 100 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 100 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 100 mg/kg | |

FAST GREEN FCF

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.11 | Fruit fillings for pastries | 100 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 300 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 100 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 100 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 100 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 100 mg/kg | |
| 07.0 | Bakery wares | 100 mg/kg | |
| 07.1.1 | Breads and rolls | 100 mg/kg | |
| 07.2 | Fine bakery wares | 100 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | GMP | Note 4 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | GMP | Notes 3 & 4 |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | Notes 3 & 4 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 09.2.4.1 | Cooked fish and fish products | 100 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 100 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 100 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 100 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 100 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.6 | Spirituous beverages | 100 mg/kg | |

## FERROCYANIDES

| | | | |
|---|---|---|---|
| Sodium Ferrocyanide | INS: 535 | Potassium Ferrocyanide | INS: 536 |
| Calcium Ferrocyanide | INS: 538 | | |

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.1 | Salt | 20 mg/kg | Note 24 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 20 mg/kg | Note 24 |
| 14.2.3 | Wines | GMP | Note 24 |

## FUMARIC ACID

Fumaric Acid INS: 297

Function: Acidity Regulator, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 1000 mg/kg | Note 2 |
| 14.2.3 | Wines | 3000 mg/kg | |

## GALLATE, PROPYL

Gallate, Propyl INS: 310

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.5.1 | Milk powder and cream powder (plain) | 200 mg/kg | Note 75 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 90 mg/kg | Note 2 |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 200 mg/kg | Note 15 |
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 200 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 100 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 100 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 50 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 90 mg/kg | Note 2 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 50 mg/kg | Note 76 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 200 mg/kg | Note 15 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 200 mg/kg | Note 15 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | Note 15 |
| 05.3 | Chewing gum | 1000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 200 mg/kg | Note 15 |
| 06.1 | Whole, broken, or flaked grain, including rice | 100 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | Note 15 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 100 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 90 mg/kg | Note 2 |
| 07.0 | Bakery wares | 1000 mg/kg | Note 15 |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 100 mg/kg | Note 15 |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 200 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 200 mg/kg | Note 15 |
| 08.3 | Processed comminuted meat, poultry, and game products | 200 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 111 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 100 mg/kg | Note 15 |

**GALLATE, PROPYL**
**Function: Antioxidant**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 10.4 | Egg-based desserts (e.g., custard) | 90 mg/kg | Note 2 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 200 mg/kg | Note 15 |
| 12.5 | Soups and broths | 200 mg/kg | Note 15 |
| 12.5.2 | Mixes for soups and broths | 200 mg/kg | Note 15 |
| 12.6 | Sauces and like products | 200 mg/kg | Note 15 |
| 13.6 | Food supplements | 400 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 15 |
| 15.0 | Ready-to-eat savouries | 200 mg/kg | Note 15 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | Note 15 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 200 mg/kg | Note 15 |
| | | 0 – 16 | All |

## GELLAN GUM

**Gellan Gum** **INS: 418**
**Function: Thickener, Stabilizer**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1.1 | Fermented milks (plain), not heat-trued after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 500 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 500 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including sale substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |

GELLAN GUM

Function: Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## GLUCONO DELTA-LACTONE

Glucono Delta-Lactone INS: 575

Function: Acidity Regulator, Raising Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |

## GLUCOSE OXIDASE (ASPERGILLUS NIGER VAR.)

Glucose Oxidase (Aspergillus niger var.) INS: 1102

Function: Antioxidant, Preservative, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.3 | Wines | GMP | |

## GLUTAMIC ACID (L(+)-)

Glutamic Acid (L(+)-) INS: 620

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## GLYCEROL

Glycerol INS: 422

Function: Emulsifier, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |

GLYCEROL

Function: Emulsifier, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## GRAPE SKIN EXTRACT

Grape Skin Extract INS: 163ii

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.2.1 | Total ripened cheese, includes rind | 125 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4.2 | Flavoured processed cheese, including containing fruit, vegetables, meat, etc. | GMP | |
| 01.6.5 | Cheese analogues | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 100 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | GMP | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |

GRAPE SKIN EXTRACT

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 05.1.2 | Cocoa-based spreads, including fillings | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | |
| 05.3 | Chewing gum | 5000 mg/kg | |
| 05.3 | Chewing gum | 10000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 07.0 | Bakery wares | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | GMP | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Note 78 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | GMP | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | GMP | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | GMP | Note 16 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |

GRAPE SKIN EXTRACT

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.4 | Mustards | GMP | |
| 12.5 | Soups and broths | GMP | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | GMP | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | GMP | |
| 12.6.3 | Mixes for sauces and gravies | GMP | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | GMP | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | GMP | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 500 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 10 mg/kg | |

## GUAIAC RESIN

Guaiac Resin INS: 314

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 1000 mg/kg | |
| 02.2.1 | Emulsions containing at least 80% fat | 1000 mg/kg | |
| 05.3 | Chewing gum | 1500 mg/kg | |
| 12.6 | Sauces and like products | 600 mg/kg | |

## GUANYLIC ACID, 5'-

Guanylic Acid, 5'- INS: 626

GUANYLIC ACID, 5'-

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## GUAR GUM

Guar Gum INS: 412

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 6000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 20000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | 20000 mg/kg | |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 10000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 20000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

## GUM ARABIC

Gum Arabic INS: 414

Function: Bulking Agent, Emulsifier, Filler, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 15000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | 83000 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 83000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | Note 65 |
| 13.2 | Weaning foods for infants and growing children | 20000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

## HYDROCHLORIC ACID

Hydrochloric Acid INS: 507

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 06.2 | Flours and starches | GMP | |

HYDROCHLORIC ACID

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.2 | Weaning foods for infants and growing children | GMP | |

## HYDROXYBENZOATES, p-

| | | | |
|---|---|---|---|
| Ethyl p-Hydroxybenzoate | INS: 214 | Propyl p-Hydroxybenzoate | INS: 216 |
| Methyl p-Hydroxybenzoate | INS: 218 | | |

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.2 | Ripened cheese | 500 mg/kg | Note 27 |
| 01.6.4 | Processed cheese | 300 mg/kg | Note 27 |
| 01.6.5 | Cheese analogues | 500 mg/kg | Note 27 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 120 mg/kg | Note 27 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 1000 mg/kg | Note 27 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 300 mg/kg | Note 27 |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 300 mg/kg | Note 27 |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | Note 27 |
| 04.1.1.2 | Surface-treated fresh fruit | 12 mg/kg | Note 27 |
| 04.1.1.3 | Peeled or cut fresh fruit | 12 mg/kg | Note 27 |
| 04.1.2.1 | Frozen fruit | 800 mg/kg | Note 27 |
| 04.1.2.2 | Dried fruit | 800 mg/kg | Note 27 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 800 mg/kg | Note 27 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 800 mg/kg | Note 27 |
| 04.1.2.5 | Jams, jellies and marmelades | 1000 mg/kg | Note 27 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 1000 mg/kg | Note 27 |
| 04.1.2.7 | Candied fruit | 1000 mg/kg | Note 27 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 800 mg/kg | Note 27 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 800 mg/kg | Note 27 |
| 04.1.2.10 | Fermented fruit products | 800 mg/kg | Note 27 |
| 04.1.2.11 | Fruit fillings for pastries | 800 mg/kg | Note 27 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 12 mg/kg | Note 27 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 12 mg/kg | Note 27 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 1000 mg/kg | Note 27 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 300 mg/kg | Note 27 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 1000 mg/kg | Note 27 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 1000 mg/kg | Note 27 |
| 04.2.2.7 | Fermented vegetable products | 300 mg/kg | Note 27 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 700 mg/kg | Note 27 |
| 05.1.2 | Cocoa-based spreads, including fillings | 300 mg/kg | Note 27 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 300 mg/kg | Note 27 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 2000 mg/kg | Note 27 |
| 05.3 | Chewing gum | 300 mg/kg | Note 27 |
| 05.3 | Chewing gum | 1500 mg/kg | Note 27 |

HYDROXYBENZOATES, p-

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 300 mg/kg | Note 27 |
| 07.2 | Fine bakery wares | 300 mg/kg | Note 27 |
| 08.2.1.2 | Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts | GMP | Notes 3 & 27 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | GMP | Notes 3 & 27 |
| 08.4 | Edible casings (e.g., sausage casings) | 36 mg/kg | Note 27 |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 27 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 100 mg/kg | Note 27 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 100 mg/kg | Note 27 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | Note 27 |
| 12.3 | Vinegars | 100 mg/kg | Note 27 |
| 12.4 | Mustards | 300 mg/kg | Note 27 |
| 12.5 | Soups and broths | 300 mg/kg | Note 27 |
| 12.6 | Sauces and like products | 1000 mg/kg | Note 27 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 300 mg/kg | Note 27 |
| 14.1.2 | Fruit and vegetable juices | 1000 mg/kg | Note 27 |
| 14.1.3 | Fruit and vegetable nectars | 200 mg/kg | Note 27 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 100 mg/kg | Note 27 |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | 100 mg/kg | Note 27 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 200 mg/kg | Note 27 |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 200 mg/kg | Note 27 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 27 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 450 mg/kg | Note 27 |
| 14.2.1 | Beer and malt beverages | 1000 mg/kg | Notes 27 & 96 |
| 14.2.2 | Cider and perry | 200 mg/kg | Note 27 |
| 14.2.3 | Wines | 1000 mg/kg | Notes 27 & 96 |
| 14.2.4 | Fruit wine | 200 mg/kg | Note 27 |
| 14.2.5 | Mead | 200 mg/kg | Note 27 |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 1000 mg/kg | Notes 27 & 96 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | Note 27 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 300 mg/kg | Note 27 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 1000 mg/kg | Note 27 |

## HYDROXYPROPYL CELLULOSE

Hydroxypropyl Cellulose INS: 463

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |

HYDROXYPROPYL CELLULOSE

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## HYDROXYPROPYL DISTARCH PHOSPHATE

Hydroxypropyl Distarch Phosphate INS: 1442

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## HYDROXYPROPYL METHYL CELLULOSE

Hydroxypropyl Methyl Cellulose INS: 464

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |

HYDROXYPROPYL METHYL CELLULOSE

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## HYDROXYPROPYL STARCH

Hydroxypropyl Starch INS: 1440

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |

HYDROXYPROPYL STARCH

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 25000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 60000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |
| 14.2.3.4 | Aromatized wine | GMP | |

## INDIGOTINE

Indigotine INS: 132

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 300 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 6 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 300 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |

INDIGOTINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 450 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 450 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 300 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 07.0 | Bakery wares | 300 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 15 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 300 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |

INDIGOTINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 300 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## INOSINIC ACID, 5'-

Inosinic Acid, 5'- INS: 630

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## INSOLUBLE POLYVINYLPYRROLIDONE

Insoluble Polyvinylpyrrolidone INS: 1202

Function: Colour Retention Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.3 | Wines | 7190 mg/kg | Note 18 |

## IRON OXIDES

Iron Oxide, Black INS: 172i Iron Oxide, Red INS: 172ii
Iron Oxide, Yellow INS: 172iii

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6.1 | Unripened cheese | GMP | |
| 01.6.2.2 | Rind of ripened cheese | GMP | |

IRON OXIDES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | GMP | |
| 01.6.5 | Cheese analogues | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | GMP | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | GMP | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 05.1.2 | Cocoa-based spreads, including fillings | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | |
| 05.3 | Chewing gum | 6000 mg/kg | |
| 05.3 | Chewing gum | 10000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 07.2 | Fine bakery wares | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | GMP | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1000 mg/kg | Note 78 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | GMP | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 1000 mg/kg | Note 72 |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |

IRON OXIDES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | GMP | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | GMP | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | GMP | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.4 | Mustards | GMP | |
| 12.5 | Soups and broths | GMP | |
| 12.6 | Sauces and like products | GMP | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.0 | Foodstuffs intended for particular nutritional uses | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | |

## ISOMALT

Isomalt INS: 953

Function: Anticaking Agent, Bulking Agent, Emulsifier, Glazing Agent, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

ISOMALT

Function: Anticaking Agent, Bulking Agent, Emulsifier, Glazing Agent, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## ISOPROPYL CITRATES

Isopropyl Citrates INS: 384

Function: Antioxidant, Preservative, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 100 mg/kg | Note 77 |
| 02.1.2 | Vegetable oils and fats | 100 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 200 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 200 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 200 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 100 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 200 mg/kg | |
| 08.2.1.2 | Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 200 mg/kg | |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 200 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 200 mg/kg | |

## KARAYA GUM

Karaya Gum INS: 416

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 200 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 200 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

## KONJAC FLOUR

Konjac Flour INS: 425

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 10000 mg/kg | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |

KONJAC FLOUR

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## LACTIC ACID (L-, D- and Dl-)

Lactic Acid (L-, D- and Dl-) INS: 270

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 6000 mg/kg | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | 15000 mg/kg | |
| 14.2.3 | Wines | GMP | |
| 14.2.3 | Wines | 1 mg/kg | |

## LACTIC AND FATTY ACID ESTERS OF GLYCEROL

Lactic and Fatty Acid Esters of Glycerol INS: 472b

Function: Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 10000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 10000 mg/kg | |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | GMP | |
| 02.1.2 | Vegetable oils and fats | GMP | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 80000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |

LACTIC AND FATTY ACID ESTERS OF GLYCEROL

Function: Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.1 | Salt | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 5000 mg/kg | Note 51 |
| 12.8 | Yeast and like products | 5000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## LACTITOL

Lactitol INS: 966

Function: Bulking Agent, Emulsifier, Stabilizer, Sweetener, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## LECITHIN

Lecithin INS: 322

Function: Antioxidant, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 30000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 20000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |

LECITHIN

Function: Antioxidant, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.2 | Flours and starches | 2000 mg/kg | |
| 06.2 | Flours and starches | 5000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 2000 mg/kg | Note 54 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 5000 mg/kg | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.1 | Salt | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 12.8 | Yeast and like products | GMP | |
| 13.1 | Infant formulae and follow-on formulae | 3000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 5000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## LYSOZYME HYDROCHLORIDE

Lysozyme Hydrochloride INS: 1105

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6 | Cheese | GMP | |
| 01.6.2 | Ripened cheese | GMP | |
| 14.2.2 | Cider and perry | 500 mg/kg | |
| 14.2.3 | Wines | 500 mg/kg | |
| 14.2.4 | Fruit wine | 500 mg/kg | |

## MAGNESIUM CARBONATE

Magnesium Carbonate INS: 504i

Function: Acidity Regulator, Anticaking Agent, Colour Retention Agent,

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |

MAGNESIUM CARBONATE

Function: Acidity Regulator, Anticaking Agent, Colour Retention Agent,

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.2 | Flours and starches | GMP | Note 57 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## MAGNESIUM CHLORIDE

Magnesium Chloride INS: 511

Function: Colour Retention Agent, Firming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 2260 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |

MAGNESIUM CHLORIDE

Function: Colour Retention Agent, Firming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## MAGNESIUM GLUTAMATE, DI-L-

Magnesium Glutamate, DI-L- INS: 625

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## MAGNESIUM HYDROGEN CARBONATE

Magnesium Hydrogen Carbonate INS: 504ii

Function: Acidity Regulator, Anticaking Agent, Firming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## MAGNESIUM HYDROXIDE

Magnesium Hydroxide INS: 528

**MAGNESIUM HYDROXIDE**
**Function: Acidity Regulator, Colour Retention Agent, Stabilizer**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## MAGNESIUM SILICATE (SYNTHETIC)

**Magnesium Silicate (Synthetic)** INS: **5531**

**Function: Anticaking Agent**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 0 - 16 | All | GMP | |

## MALIC ACID (DL-)

**MalicAcid (DL-)** INS: **296**
**Function: Acidity Regulator, Sequestrant**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

MALIC ACID (DL-) Function:Acidity Regulator, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | |
| 02.1.2 | Vegetable oils and fats | 100 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 100 mg/kg | |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 12.1 | Salt | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 3500 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 3000 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 3000 mg/kg | |
| 14.2.3 | Wines | GMP | |

## MALTITOL and MALTITOL SYRUP

Maltitol and Maltitol Syrup INS: 965

Function: Bulking Agent, Emulsifier, Stabilizer, Sweetener, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## MALTOL

Maltol INS: 636

Function: Flavour Enhancer, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 200 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 200 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | |
| 05.3 | Chewing gum | 200 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 200 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 200 mg/kg | |
| 14.2.2 | Cider and perry | 250 mg/kg | |
| 14.2.3 | Wines | 250 mg/kg | |
| 14.2.4 | Fruit wine | 250 mg/kg | |

## MANNITOL

Mannitol INS: 421

Function: Anticaking Agent, Bulking Agent, Emulsifier, Stabilizer, Sweetener, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## METHYL CELLULOSE

Methyl Cellulose INS: 461

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## METHYL ETHYL CELLULOSE

Methyl Ethyl Cellulose INS: 465

Function: Bulking Agent, Emulsifier, Foaming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

METHYL ETHYL CELLULOSE

Function: Bulking Agent, Emulsifier, Foaming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## MICROCRYSTALLINE CELLULOSE

Microcrystalline Cellulose INS: 460i

Function: Anticaking Agent, Bulking Agent, Emulsifier, Foaming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.1 | Milk, including sterilized and UHT goats milk | GMP | |
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 20000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 20000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |

MICROCRYSTALLINE CELLULOSE

Function: Anticaking Agent, Bulking Agent, Emulsifier, Foaming Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 22000 mg/kg | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## MICROCRYSTALLINE WAX

Microcrystalline Wax INS: 905ci

Function: Antifoaming Agent, Bulking Agent, Glazing Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | Note 3 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | Note 3 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |

## MINERAL OIL

Mineral Oil INS: 905a

Function: Adjuvant, Antioxidant, Glazing Agent, Humectant, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.2.2 | Dried fruit | 5000 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 200 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | Note 97 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 05.0 | Confectionery | 3000 mg/kg | |
| 06.1 | Whole, broken, or flaked grain, including rice | 200 mg/kg | Note 98 |

MINERAL OIL

Function: Adjuvant, Antioxidant, Glazing Agent, Humectant, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.2 | Flours and starches | 3000 mg/kg | |
| 07.0 | Bakery wares | 3000 mg/kg | Note 3 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 200 mg/kg | Note 67 |
| 08.2.3 | Frozen processed meat, poultry, and game products in whole pieces or cuts | 950 mg/kg | Note 3 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 30 mg/kg | Note 67 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 950 mg/kg | Note 3 |
| 08.4 | Edible casings (e.g., sausage casings) | 50000 mg/kg | |
| 10.2.3 | Dried and/or heat coagulated egg products | 1000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 6000 mg/kg | |
| 12.3 | Vinegars | GMP | Note 99 |
| 12.6 | Sauces and like products | 6000 mg/kg | |
| 12.8 | Yeast and like products | 1500 mg/kg | |
| 13.6 | Food supplements | 6000 mg/kg | |
| 14.2.3 | Wines | GMP | Note 99 |

## MINERAL OIL (HIGH VISCOSITY)

Mineral Oil (High Viscosity) INS: 905a

Function: Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.3 | Chewing gum | 30000 mg/kg | |

## MINERAL OIL (MEDIUM & LOW VISCOSITY, CLASS I)

Mineral Oil (Medium & Low Viscosity, Class I) INS: 905a

Function: Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.3 | Chewing gum | 20000 mg/kg | |

## MINERAL OIL (MEDIUM & LOW VISCOSITY, CLASSES II & III)

Mineral Oil (Medium & Low Viscosity, Classes II & III) INS: 905a

Function: Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.3 | Chewing gum | 10000 mg/kg | |

## MONO- AND DIGLYCERIDES

Mono- and Diglycerides INS: 471

MONO- AND DIGLYCERIDES

Function: Antifoaming Agent, Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 2000 mg/kg | |
| 01.1.1 | Milk and buttermilk | 10000 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 1000 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 20000 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 20000 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 100000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 20000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 30000 mg/kg | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 6000 mg/kg | |
| 12.1 | Salt | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 5000 mg/kg | Note 51 |
| 12.8 | Yeast and like products | 5000 mg/kg | |
| 12.8 | Yeast and like products | 20000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 5000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 15000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 18 mg/kg | |

## MONOAMMONIUM GLUTAMATE, L-

Monoammonium Glutamate, L- INS: 624

Function: Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## MONOPOTASSIUM GLUTAMATE, L-

Monopotassium Glutamate, L- INS: 622

**MONOPOTASSIUM GLUTAMATE, L**

**Function: Flavour Enhancer**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, Including mollusks, crustaceans, and echinoderms | GMP | Note41 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and Condiments (e.g., seasoning for instant noodles | GMP | Note 51 |

## MONOSODIUM GLUTAMATE, L

**Monosodium Glutamate, L-** INS: **621**

**Function: Flavour Enhancer**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## MONOSTARCH PHOSPHATE

**Monostarch Phosphate** INS: **1410**

**Function: Bulking Agent, Emulsifier, Stabilizer, Thickener**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## NISIN

**Nisin** **INS: 234**

**Function: Preservative**

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.3 | Clotted cream | 10 mg/kg | Note 28 |
| 01.6.1 | Unripened cheese | 12.5 mg/kg | Note 28 |
| 01.6.2 | Ripened cheese | 12.5 mg/kg | Note 28 |
| 01.6.3 | Whey cheese | 12.5 mg/kg | Note 28 |
| 01.6.4 | Processed cheese | 250 mg/kg | Note 28 |
| 01.6.5 | Cheese analogues | 12.5 mg/kg | Note 28 |
| 01.6.6 | Whey protein cheese | 12.5 mg/kg | Note 28 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | Note 28 |

NISIN

Function: Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 3 mg/kg | Note 28 |
| 07.2 | Fine bakery wares | 250 mg/kg | Note 28 |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | GMP | Note 28 |

## NITRATES

Sodium Nitrate INS: 251 Potassium Nitrate INS: 252

Function: Colour Retention Agent, Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6 | Cheese | 37 mg/kg | Note 30 |
| 08.1 | Fresh meat, poultry, and game | 146 mg/kg | Note 30 |
| 08.2.1.1 | Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 1598 mg/kg | Note 30 |
| 08.2.1.2 | Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 365 mg/kg | Note 30 |
| 08.2.1.3 | Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 365 mg/kg | Note 30 |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 365 mg/kg | Note 30 |
| 08.2.3 | Frozen processed meat, poultry, and game products in whole pieces or cuts | 218 mg/kg | Note 30 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 1254 mg/kg | Note 30 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 365 mg/kg | Note 30 |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 365 mg/kg | Note 30 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 365 mg/kg | Note 30 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 365 mg/kg | Note 30 |
| 08.4 | Edible casings (e.g., sausage casings) | 146 mg/kg | Note 30 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 365 mg/kg | Notes 22 & 30 |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 218 mg/kg | Note 30 |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 73 mg/kg | Notes 30 & 31 |

## NITRITES

Potassium Nitrite INS: 249 Sodium Nitrite INS: 250

Function: Colour Retention Agent, Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.1 | Unripened cheese | 17 mg/kg | Note 32 |
| 01.6.2 | Ripened cheese | 17 mg/kg | Note 32 |
| 01.6.3 | Whey cheese | 17 mg/kg | Note 32 |
| 01.6.4 | Processed cheese | 17 mg/kg | Note 32 |
| 01.6.5 | Cheese analogues | 34 mg/kg | Notes 32 & 36 |
| 01.6.6 | Whey protein cheese | 17 mg/kg | Note 32 |

NITRITES

Function: Colour Retention Agent, Preservative

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1 | Fresh meat, poultry, and game | 134 mg/kg | Note 32 |
| 08.2.1.1 | Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 416 mg/kg | Note 32 |
| 08.2.1.2 | Cured (including salted) and dried non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 134 mg/kg | Note 32 |
| 08.2.1.3 | Fermented non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 134 mg/kg | Note 32 |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 167 mg/kg | Notes 32 & 36 |
| 08.2.3 | Frozen processed meat, poultry, and game products in whole pieces or cuts | 167 mg/kg | Notes 32 & 36 |
| 08.3 | Processed comminuted meat, poultry, and game products | 134 mg/kg | Note 32 |
| 08.4 | Edible casings (e.g., sausage casings) | 134 mg/kg | Note 32 |
| 09.2.4.1 | Cooked fish and fish products | 50 mg/kg | Notes 32 & 36 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 134 mg/kg | Notes 22 & 32 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 5 mg/kg | Notes 32 & 36 |

## NITROGEN

Nitrogen INS: 941

Function: Propellant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | Note 59 |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | GMP | Note 59 |
| 01.4.1 | Pasteurized cream | GMP | Note 59 |
| 02.1 | Fats and oils essentially free from water | GMP | Note 59 |
| 02.2.1.1 | Butter and concentrated butter | GMP | Notes 52 & 59 |
| 04.1.1 | Fresh fruit | GMP | Note 59 |
| 04.2.2.1 | Frozen vegetables | GMP | Note 59 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 59 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 59 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 59 |
| 14.2.3 | Wines | GMP | Note 59 |

## NITROUS OXIDE

Nitrous Oxide INS: 942

Function: Propellant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |

NITROUS OXIDE

Function: Propellant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1.2 | Vegetable oils and fats | GMP | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.1 | Untreated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.1 | Untreated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.2 | Flours and starches | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.1 | Fresh eggs | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.3 | Honey | GMP | |
| 12.1 | Salt | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 12.8 | Yeast and like products | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.1.1 | Natural mineral waters and source waters | GMP | Note 68 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## OXIDIZED STARCH

Oxidized Starch INS: 1404

Function: Bulking Agent, Emulsifier, Stabilzer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |

OXIDIZED STARCH

Function: Bulking Agent, Emulsifier, Stabilzer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.2 | Weaning foods for infants and growing children | 50000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |
| 14.2.3.4 | Aromatized wine | GMP | |

## OXYSTEARIN

Oxystearin INS: 387

Function: Antifoaming Agent, Crystallization Inhibitor, Release Agent, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 1250 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 1250 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 1250 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 1250 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 1250 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 250 mg/kg | |

## PAPAIN

Papain INS: 1101ii

Function: Flavour Enhancer, Flour Treatment Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | 1000 mg/kg | |
| 06.2 | Flours and starches | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 14.2.3 | Wines | GMP | |

## PECTINS (AMIDATED AND NON-AMIDATED)

Pectins (Amidated and Non-Amidated) INS: 440

PECTINS (AMIDATED AND NON-AMIDATED)

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | 20000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 20000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 3000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 3000 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 3000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## PHOSPHATED DISTARCH PHOSPHATE

Phosphated Distarch Phosphate INS: 1413

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |

PHOSPHATED DISTARCH PHOSPHATE

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 60000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 60000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 10000 mg/kg | |

## PHOSPHATES

| | | | |
|---|---|---|---|
| Orthophosphoric Acid | INS: 338 | Monosodium Orthophosphate | INS: 339i |
| Disodium Orthophosphate | INS: 339ii | Trisodium Orthophosphate | INS: 339iii |
| Monopotassium Orthophosphate | INS: 340i | Dipotassium Orthophosphate | INS: 340ii |
| Tripotassium Orthophosphate | INS: 340iii | Monocalcium Orthophosphate | INS: 341i |
| Dicalcium Orthophosphate | INS: 341ii | Tricalcium Orthophosphate | INS: 341iii |
| Monoammonium Orthophosphate | INS: 342i | Diammonium Orthophosphate | INS: 342ii |
| Dimagnesium Orthophosphate | INS: 343ii | Trimagnesium Orthophosphate | INS: 343iii |
| Disodium Diphosphate | INS: 450i | Tetrasodium Diphosphate | INS: 450iii |
| Tetrapotassium Diphosphate | INS: 450v | Dicalcium Diphosphate | INS: 450vi |
| Pentasodium Triphosphate | INS: 451i | Pentapotassium Triphosphate | INS: 451ii |
| Sodium Polyphosphate | INS: 452i | Potassium Polyphosphate | INS: 452ii |
| Calcium Polyphosphates | INS: 452iv | Ammonium Polyphosphates | INS: 452v |
| Bone Phosphate | INS: 542 | | |

Function: Anticaking Agt, Acidity Reg., Adj., Antioxidant, Colour Retention Agt, Emulsifier, Flavour Enh, Firming Agt, Flour Trt Agt, Humectant, Pres., Raising Agt, Seq., Stabilizer, Thk

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 440 mg/kg | Note 33 |
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 660 mg/kg | Note 33 |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 440 mg/kg | Note 33 |
| 01.3.1 | Condensed milk (plain) | 660 mg/kg | Notes 33 & 34 |
| 01.3.2 | Beverage whiteners | 11000 mg/kg | Note 33 |
| 01.4 | Cream (plain) and the like | 1100 mg/kg | Note 33 |
| 01.5.1 | Milk powder and cream powder (plain) | 2200 mg/kg | Note 33 |
| 01.5.2 | Milk and cream powder analogues | 440 mg/kg | Note 33 |
| 01.5.3 | Milk and cream (blend) powder (plain and flavoured) | 440 mg/kg | Note 33 |
| 01.6.1 | Unripened cheese | 10000 mg/kg | Note 33 |
| 01.6.2 | Ripened cheese | 440 mg/kg | Note 33 |
| 01.6.3 | Whey cheese | 440 mg/kg | Note 33 |
| 01.6.4 | Processed cheese | 10000 mg/kg | Note 33 |
| 01.6.5 | Cheese analogues | 6600 mg/kg | Note 33 |
| 01.6.6 | Whey protein cheese | 440 mg/kg | Note 33 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 4400 mg/kg | Note 33 |
| 01.8 | Whey and whey products, excluding whey cheeses | 440 mg/kg | Note 33 |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 22 mg/kg | Note 33 |
| 02.1.2 | Vegetable oils and fats | 110 mg/kg | Note 33 |

PHOSPHATES

Function: Anticaking Agt, Acidity Reg., Adj., Antioxidant, Colour Retention Agt, Emulsifier, Flavour Enh, Firming Agt, Flour Trt Agt, Humectant, Pres., Raising Agt, Seq., Stabilizer, Thk

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 110 mg/kg | Note 33 |
| 02.2.1.1 | Butter and concentrated butter | 440 mg/kg | Note 33 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 110 mg/kg | Note 33 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 1100 mg/kg | Note 33 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | GMP | Note 33 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 1100 mg/kg | Note 33 |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 1100 mg/kg | Note 33 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 7000 mg/kg | Note 33 |
| 03.0 | Edible ices, including sherbet and sorbet | 12000 mg/kg | Note 33 |
| 04.1.2.1 | Frozen fruit | 200 mg/kg | Note 33 |
| 04.1.2.2 | Dried fruit | 10 mg/kg | Note 33 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 240 mg/kg | Note 33 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | Note 33 |
| 04.1.2.5 | Jams, jellies and marmelades | 275 mg/kg | Note 33 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 240 mg/kg | Note 33 |
| 04.1.2.7 | Candied fruit | 10 mg/kg | Note 33 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 7000 mg/kg | Note 33 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 7000 mg/kg | Note 33 |
| 04.1.2.11 | Fruit fillings for pastries | 7000 mg/kg | Note 33 |
| 04.2.1.1 | Untreated fresh vegetables, and nuts and seeds | 200 mg/kg | Note 33 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 880 mg/kg | Notes 16 & 33 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 220 mg/kg | Note 33 |
| 04.2.2.1 | Frozen vegetables | 5000 mg/kg | Note 33 & 76 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 5000 mg/kg | Note 33 & 76 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 2200 mg/kg | Note 33 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 2200 mg/kg | Note 33 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 1 mg/kg | Note 33 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 2200 mg/kg | Note 33 |
| 04.2.2.7 | Fermented vegetable products | 1 mg/kg | Note 33 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 2200 mg/kg | Note 33 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 6000 mg/kg | Note 33 |
| 05.1.2 | Cocoa-based spreads, including fillings | 2200 mg/kg | Note 33 |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 2200 mg/kg | Note 33 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 2200 mg/kg | Note 33 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 1300 mg/kg | Note 33 |
| 05.3 | Chewing gum | 22000 mg/kg | Note 33 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 7000 mg/kg | Note 33 |
| 06.1 | Whole, broken, or flaked grain, including rice | 220 mg/kg | Note 33 |
| 06.2 | Flours and starches | 9900 mg/kg | Note 33 |
| 06.3 | Breakfast cereals, including rolled oats | 1100 mg/kg | Note 33 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 2200 mg/kg | Note 33 |

PHOSPHATES

Function: Anticaking Agt, Acidity Reg., Adj., Antioxidant, Colour Retention Agt, Emulsifier, Flavour Enh, Firming Agt, Flour Trt Agt, Humectant, Pres., Raising Agt, Seq., Stabilizer, Thk

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 7000 mg/kg | Note 33 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 3000 mg/kg | Note 33 |
| 07.0 | Bakery wares | 9300 mg/kg | Note 33 |
| 07.1.1 | Breads and rolls | 9300 mg/kg | Note 33 |
| 07.1.2 | Crackers, excluding sweet crackers | 8000 mg/kg | Note 33 |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 8000 mg/kg | Note 33 |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 8000 mg/kg | Note 33 |
| 07.1.5 | Steamed breads and buns | 8000 mg/kg | Note 33 |
| 07.2 | Fine bakery wares | 8000 mg/kg | Note 33 |
| 08.1 | Fresh meat, poultry, and game | 1100 mg/kg | Note 33 |
| 08.2.1 | Non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 1100 mg/kg | Note 33 |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 1540 mg/kg | Note 33 |
| 08.2.3 | Frozen processed meat, poultry, and game products in whole pieces or cuts | 1100 mg/kg | Note 33 |
| 08.3 | Processed comminuted meat, poultry, and game products | 1100 mg/kg | Note 33 |
| 08.4 | Edible casings (e.g., sausage casings) | 1100 mg/kg | Note 33 |
| 09.1.1 | Fresh fish | GMP | Note 33 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 2200 mg/kg | Note 33 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 2200 mg/kg | Note 33 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 1100 mg/kg | Note 33 |
| 09.2.4.1 | Cooked fish and fish products | 1100 mg/kg | Note 33 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 1100 mg/kg | Note 33 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 22 & 33 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 220 mg/kg | Note 33 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 1100 mg/kg | Note 33 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 220 mg/kg | Note 33 |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 1100 mg/kg | Note 33 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 2200 mg/kg | Note 33 |
| 10.2.1 | Liquid egg products | 2200 mg/kg | Note 33 |
| 10.2.2 | Frozen egg products | 1100 mg/kg | Note 33 |
| 10.2.3 | Dried and/or heat coagulated egg products | GMP | Note 33 |
| 10.3 | Preserved eggs, including alkaline, salted, and canned eggs | 220 mg/kg | Note 33 |
| 10.4 | Egg-based desserts (e.g., custard) | 7000 mg/kg | Note 33 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 3300 mg/kg | Notes 33 & 56 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 220 mg/kg | Note 33 |
| 12.1 | Salt | 5500 mg/kg | Note 33 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 4400 mg/kg | Note 33 |
| 12.4 | Mustards | 660 mg/kg | Note 33 |

PHOSPHATES

Function: Anticaking Agt, Acidity Reg., Adj., Antioxidant, Colour Retention Agt, Emulsifier, Flavour Enh, Firming Agt, Flour Trt Agt, Humectant, Pres., Raising Agt, Seq., Stabilizer, Thk

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 4600 mg/kg | Note 33 |
| 12.5.2 | Mixes for soups and broths | 6000 mg/kg | Note 33 |
| 12.6 | Sauces and like products | 8000 mg/kg | Note 33 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | Note 33 |
| 12.9 | Protein products | 4400 mg/kg | Note 33 |
| 13.0 | Foodstuffs intended for particular nutritional uses | 1100 mg/kg | Note 33 |
| 14.1.1.2 | Table waters and soda waters | 660 mg/kg | Note 33 |
| 14.1.2 | Fruit and vegetable juices | 2500 mg/kg | Notes 33 & 88 |
| 14.1.3 | Fruit and vegetable nectars | 2500 mg/kg | Notes 33 & 88 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 12000 mg/kg | Note 33 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 440 mg/kg | Note 33 |
| 14.2.1 | Beer and malt beverages | 12000 mg/kg | Notes 33 & 96 |
| 14.2.2 | Cider and perry | 440 mg/kg | Note 33 |
| 14.2.3 | Wines | 12000 mg/kg | Notes 33 & 96 |
| 14.2.4 | Fruit wine | 220 mg/kg | Note 33 |
| 14.2.5 | Mead | 220 mg/kg | Note 33 |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 220 mg/kg | Note 33 |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 12000 mg/kg | Notes 33 & 96 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 1300 mg/kg | Note 33 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 1100 mg/kg | Note 33 |
| 15.3 | Snacks - fish based | 1100 mg/kg | Note 33 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 2000 mg/kg | Note 33 |

## PHOSPHATIDIC ACID, AMMONIUM SALT

Phosphatidic Acid, Ammonium Salt INS: 442

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 7500 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 07.1.1 | Breads and rolls | GMP | |

## POLYDEXTROSE

Polydextroses A and N INS: 1200

Function: Bulking Agent, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 11.3 | Honey | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |

## POLYDIMETHYLSILOXANE

Polydimethylsiloxane INS: 900a

Function: Anticaking Agent, Antifoaming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.5.1 | Milk powder and cream powder (plain) | 10 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 50 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 10 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 10 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 50 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 10 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 10 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 30 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 10 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 110 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 50 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 10 mg/kg | Note 15 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 10 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 10 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 10 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 50 mg/kg | |

POLYDIMETHYLSILOXANE

Function: Anticaking Agent, Antifoaming Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10 mg/kg | |
| 05.3 | Chewing gum | 100 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 50 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 10 mg/kg | |
| 07.0 | Bakery wares | 10 mg/kg | Notes 3 & 36 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 50 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 50 mg/kg | |
| 09.2 | Processed fish and fish products, including mollusks, crustaceans, and echinoderms | 50 mg/kg | |
| 10.2 | Egg products | 50 mg/kg | |
| 10.3 | Preserved eggs, including alkaline, salted, and canned eggs | 50 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 50 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 50 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 50 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 50 mg/kg | |
| 12.1 | Salt | 10 mg/kg | Note 36 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 50 mg/kg | |
| 12.5 | Soups and broths | 10 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 50 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 10 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 10 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 50 mg/kg | |
| 12.8 | Yeast and like products | 50 mg/kg | |
| 13.0 | Foodstuffs intended for particular nutritional uses | 50 mg/kg | |
| 14.1.2 | Fruit and vegetable juices | 10 mg/kg | |
| 14.1.3 | Fruit and vegetable nectars | 50 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 20 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 50 mg/kg | |
| 14.2.1 | Beer and malt beverages | 10 mg/kg | |
| 14.2.2 | Cider and perry | 10 mg/kg | |
| 14.2.2 | Cider and perry | 50 mg/kg | |
| 14.2.4 | Fruit wine | 10 mg/kg | |
| 14.2.6 | Spirituous beverages | 50 mg/kg | |

## POLYGLYCEROL ESTERS OF FATTY ACIDS

Polyglycerol Esters of Fatty Acids INS: 475

Function: Adjuvant, Crystallization Inhibitor, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

POLYGLYCEROL ESTERS OF FATTY ACIDS

Function: Adjuvant, Crystallization Inhibitor, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 30000 mg/kg | |
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4 | Cream (plain) and the like | 10000 mg/kg | |
| 01.5 | Milk powder and cream powder | 10000 mg/kg | |
| 01.6.4 | Processed cheese | 5000 mg/kg | |
| 01.6.4 | Processed cheese | 10000 mg/kg | |
| 01.6.5 | Cheese analogues | 5000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 10000 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 20000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 10000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 1000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 5000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 9000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 5000 mg/kg | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 3000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 5000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 06.1 | Whole, broken, or flaked grain, including rice | 10000 mg/kg | |
| 06.2 | Flours and starches | 10000 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 10000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 20000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 9000 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 10000 mg/kg | |
| 07.1.1 | Breads and rolls | 10000 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 6000 mg/kg | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 6000 mg/kg | |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 10000 mg/kg | |
| 07.1.5 | Steamed breads and buns | 6000 mg/kg | |
| 07.2 | Fine bakery wares | 10000 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 5000 mg/kg | |
| 09.0 | Fish and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 10.2 | Egg products | 5000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 9000 mg/kg | |
| 12.5 | Soups and broths | 5000 mg/kg | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 9000 mg/kg | |
| 12.6 | Sauces and like products | 9000 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | GMP | |

POLYGLYCEROL ESTERS OF FATTY ACIDS

Function: Adjuvant, Crystallization Inhibitor, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 10000 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 10000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 9000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 5000 mg/kg | |
| 14.2.1 | Beer and malt beverages | 500 mg/kg | |
| 14.2.2 | Cider and perry | 5000 mg/kg | |
| 14.2.3 | Wines | 500 mg/kg | |
| 14.2.4 | Fruit wine | 500 mg/kg | |
| 14.2.5 | Mead | 500 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 5000 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 5000 mg/kg | |
| 15.0 | Ready-to-eat savouries | 10000 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | |

## POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

Polyglycerol Esters of Interesterified Ricinoleic Acid INS: 476

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4 | Cream (plain) and the like | 5000 mg/kg | |
| 01.5 | Milk powder and cream powder | 10000 mg/kg | |
| 01.6.4 | Processed cheese | 5000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 10000 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 20000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 10000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 1000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 5000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 5000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 5000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 3000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 5000 mg/kg | |

POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.0 | Cereals and cereal products, including flours and starches from roots and tubers, pulses and legumes, excluding bakery wares of food category 07.0 | 5000 mg/kg | |
| 07.0 | Bakery wares | 5000 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 5000 mg/kg | |
| 09.0 | Fish and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 10.2 | Egg products | 5000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |
| 12.5 | Soups and broths | 5000 mg/kg | |
| 12.6 | Sauces and like products | 5000 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 4000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and partimlated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 5000 mg/kg | |
| 14.2.1 | Beer and malt beverages | 1000 mg/kg | |
| 14.2.2 | Cider and perry | 1000 mg/kg | |
| 14.2.3 | Wines | 1000 mg/kg | |
| 14.2.4 | Fruit wine | 1000 mg/kg | |
| 15.0 | Ready-t0-eat savouries | 1000 mg/kg | |

## POLYOXYETHYLENE STEARATES

Polyoxyethylene (8) Stearate INS: 430 Polyoxyethylene (40) Stearate INS: 431

Function: Emulsifier, Stabilizer

| Food Cat.No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 07.0 | Bakery wares | 4000 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | 5000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 500 mg/kg | |
| 14.2.3 | Wines | GMP | |

## POLYSORBATES

Polyoxyethylene (20) Sorbitan Monolaurate INS: 432 Polyoxyethylene (20) Sorbitan Monooleate INS: 433

Polyoxyethylene (20) Sorbitan Monopalmitate INS: 434 Polyoxyethylene (20) Sorbitan Monostearate INS: 435

Polyoxyethylene (20) Sorbitan Tristearate INS: 436

Function: Antifoaming Agent, Adjuvant, Emulsifier, Foaming Agent, Flour Treatment Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, falvoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |

POLYSORBATES

Function: Antifoaming Agent, Adjuvant, Emulsifier, Foaming Agent, Flour Treatment Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 3000 mg/kg | |
| 01.4.4 | Cream analogues | 5000 mg/kg | |
| 01.5.2 | Milk and cream powder analogues | 4000 mg/kg | |
| 01.6.1 | Unripened cheese | 80 mg/kg | Note 38 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 6000 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 10000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 5000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 3000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 5000 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 30 mg/kg | Notes 7 & 100 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 3000 mg/kg | |
| 05.1.1 | Cocoa mixes (powders and syrups) | 5000 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 10000 mg/kg | |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 10000 mg/kg | |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 5000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 7000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 3000 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 5000 mg/kg | Note 2 |
| 07.1.1 | Breads and rolls | 500 mg/kg | |
| 07.1.1 | Breads and rolls | 3000 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 5000 mg/kg | Note 11 |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 10000 mg/kg | Note 11 |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 5000 mg/kg | Note 11 |
| 07.1.5 | Steamed breads and buns | 5000 mg/kg | Note 11 |
| 07.2 | Fine bakery wares | 5000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 10000 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 10000 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 1500 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |
| 12.1 | Salt | 10 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 4600 mg/kg | |
| 12.5 | Soups and broths | 1000 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 5000 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 4600 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 5000 mg/kg | |

POLYSORBATES

Function: Antifoaming Agent, Adjuvant, Emulsifier, Foaming Agent, Flour Treatment Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 4600 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 2000 mg/kg | |
| 12.8 | Yeast and like products | 4 mg/kg | |
| 12.9 | Protein products | 4000 mg/kg | Note 15 |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 1000 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 360 mg/dos | |
| 13.6 | Food supplements | 790 mg/kg | Note 101 |
| 14.1.4.1 | Carbonated drinks | 500 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 500 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 45000 mg/kg | Note 102 |
| 14.2.6 | Spirituous beverages | 120 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 2000 mg/kg | |

## POLYVINYLPYRROLIDONE

Polyvinylpyrrolidone INS: 1201

Function: Adjuvant, Emulsifier, Glazing Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 05.3 | Chewing gum | 10000 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 3000 mg/kg | |
| 12.3 | Vinegars | 40 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 500 mg/kg | |
| 14.2.1 | Beer and malt beverages | 10 mg/kg | Note 36 |
| 14.2.2 | Cider and perry | 2 mg/kg | Note 36 |
| 14.2.3 | Wines | 60 mg/kg | Note 36 |

## PONCEAU 4R

Ponceau 4R INS: 124

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 150 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 48 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |

PONCEAU 4R

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 300 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 100 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 150 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.0 | Bakery wares | 200 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | 500 mg/kg | Note 16 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 30 mg/kg | |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 250 mg/kg | |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 200 mg/kg | |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 30 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 200 mg/kg | |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 200 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |

PONCEAU 4R

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 100 mg/kg | |
| 11.0 | Sweeteners, including honey | 200 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 200 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 200 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 200 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 200 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |

PONCEAU 4R

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## POTASSIUM ACETATES

Potassium Acetates INS: 261

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## POTASSIUM ALGINATE

Potassium Alginate INS: 402

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 6000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 100 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 300 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2500 mg/kg | |
| 14.2.3 | Wines | GMP | |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |

## POTASSIUM ASCORBATE

Potassium Ascorbate INS: 303

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1 | Fresh fruit | GMP | |
| 06.2 | Flours and starches | 300 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 70 |

POTASSIUM ASCORBATE

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 500 mg/kg | Note 70 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.2.3 | Wines | GMP | |

## POTASSIUM CARBONATE

Potassium Carbonate INS: 501i

Function: Acidity Regulator, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 2600 mg/kg | Note 54 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.2.3 | Wines | 5000 mg/kg | |

## POTASSIUM CHLORIDE

Potassium Chloride INS: 508

Function: Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 30000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |

## POTASSIUM DIHYDROGEN CITRATE

Potassium Dihydrogen Citrate INS: 332i

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |

POTASSIUM DIHYDROGEN CITRATE

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 3000 mg/kg | Note 109 |
| 14.2.3.4 | Aromatized wine | GMP | |

## POTASSIUM HYDROGEN CARBONATE

Potassium Hydrogen Carbonate INS: 501ii

Function: Acidity Regulator, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.2.3 | Wines | 5000 mg/kg | |

## POTASSIUM HYDROXIDE

Potassium Hydroxide INS: 525

Function: Acidity Regulator, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| | | 6 | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## POTASSIUM LACTATE

Potassium Lactate INS: 326 Potassium Lactate (Solution) INS: 326

Function: Acidity Regulator, Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 08.1 | Fresh meat, poultry, and game | 20000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## POWDERED CELLULOSE

Powdered Cellulose INS: 460ii

Function: Anticaking Agent, Bulking Agent,Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |

POWDERED CELLULOSE

Function: Anticaking Agent, Bulking Agent,Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## PROCESSED EUCHEUMA SEAWEED

Processed Eucheuma Seaweed INS: 407a

Function: Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 5000 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 8330 mg/kg | Notes 37 & 54 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.1 | Cooked fish and fish products | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 1000 mg/kg | |
| 14.2.3 | Wines | GMP | |

## PROPYLENE GLYCOL

Propylene Glycol INS: 1520

Function: Anticaking Agent, Adjuvant, Antifoaming Agent, Carrier Solvent, Emulsifier, Flour Treatment Agent, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.1 | Unripened cheese | 6000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 25000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 25000 mg/kg | |
| 04.1.2.2 | Dried fruit | 50000 mg/kg | |
| 04.1.2.7 | Candied fruit | 50000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 200000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 200000 mg/kg | |
| 04.2.1 | Fresh vegetables, and nuts and seeds | 50000 mg/kg | |
| 04.2.2 | Processed vegetables, seaweeds, and nuts and seeds | 50000 mg/kg | Note 79 |
| 05.0 | Confectionery | 240000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 20000 mg/kg | |

PROPYLENE GLYCOL

Function: Anticaking Agent, Adjuvant, Antifoaming Agent, Carrier Solvent, Emulsifier, Flour Treatment Agent, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 500 mg/kg | Note 72 |
| 07.1 | Bread and ordinary bakery wares | 10000 mg/kg | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 50000 mg/kg | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 10000 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 10000 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 20000 mg/kg | Note 22 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | |
| 12.1 | Salt | 350 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 970000 mg/kg | |
| 12.4 | Mustards | 15000 mg/kg | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 500 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 800 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 500 mg/kg | |
| 14.1.4.1 | Carbonated drinks | 3000 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 3000 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 200000 mg/kg | |
| 14.2 | Alcoholic beverages, including alcohol-free and low-alcoholic counterparts | 50000 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 50000 mg/kg | |

## PROPYLENE GLYCOL ALGINATE

Propylene Glycol Alginate INS: 405

Function: Adjuvant, Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 3000 mg/kg | |
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4.3 | Clotted cream | 5000 mg/kg | |
| 01.4.4 | Cream analogues | 2500 mg/kg | |
| 01.6.1 | Unripened cheese | 9000 mg/kg | |
| 01.6.2.1 | Total ripened cheese, includes rind | 9000 mg/kg | |
| 01.6.2.2 | Rind of ripened cheese | 9000 mg/kg | |
| 01.6.2.3 | Cheese powder (for reconstitution; e.g., for cheese sauces) | 16000 mg/kg | |
| 01.6.3 | Whey cheese | 9000 mg/kg | |
| 01.6.4 | Processed cheese | 9000 mg/kg | |
| 01.6.5 | Cheese analogues | 9000 mg/kg | |
| 01.6.6 | Whey protein cheese | 9000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 10000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 11000 mg/kg | |

Function: Adjuvant, Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.2.1 | Emulsions containing at least 80% fat | 3000 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 3000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 7500 mg/kg | |
| 04.1.2.1 | Frozen fruit | 10000 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 20000 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 5000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 7500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 10000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 7500 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 6000 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 10000 mg/kg | Note 39 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 5000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 5000 mg/kg | |
| 05.3 | Chewing gum | 10000 mg/kg | |
| 05.3 | Chewing gum | 50000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 7500 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 5000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 10000 mg/kg | |
| 07.0 | Bakery wares | 5000 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 5000 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 20000 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 20000 mg/kg | Note 40 |
| 10.4 | Egg-based desserts (e.g., custard) | 10000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 6000 mg/kg | |
| 12.5 | Soups and broths | GMP | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 10000 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 8000 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 8000 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 8000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1200 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 1200 mg/kg | |
| 13.6 | Food supplements | 1000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 2500 mg/kg | |
| 14.2.1 | Beer and malt beverages | 3000 mg/kg | |
| 14.2.6 | Spirituous beverages | 10000 mg/kg | |

PROPYLENE GLYCOL ALGINATE

Function: Adjuvant, Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 3000 mg/kg | |

## PROPYLENE GLYCOL ESTERS OF FATTY ACIDS

Propylene Glycol Esters of Fatty Acids INS: 477

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 1000 mg/kg | |
| 01.4.4 | Cream analogues | 5000 mg/kg | Note 86 |
| 01.5.2 | Milk and cream powder analogues | 100000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 10000 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 20000 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 20000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 30000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 40000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 5000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 40000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 40000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 40000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 5000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 40000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 40000 mg/kg | |
| 07.0 | Bakery wares | 15000 mg/kg | Notes 11 & 72 |
| 10.4 | Egg-based desserts (e.g., custard) | 40000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 500 mg/kg | |
| 14.2.1 | Beer and malt beverages | 100000 mg/kg | Note 91 |

## PROTEASE (A. ORYZAE VAR.)

Protease (Asperigillus oryzae var.) INS: 1101i

Function: Enzyme, Flavour Enhancer, Flour Treatment Agent, Glazing Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.2 | Flours and starches | GMP | |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## QUINOLINE YELLOW

Quinoline Yellow INS: 104

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 150 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | 18 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | GMP | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 150 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 150 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 150 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |

QUINOLINE YELLOW

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 200 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 07.2 | Fine bakery wares | 200 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 100 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6 | Spirituous beverages | 200 mg/kg | |

QUINOLINE YELLOW

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## RED 2G

Red 2G INS: 128

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 30 mg/kg | Note 12 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 30 mg/kg | Note 12 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 25 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 14.2.6 | Spirituous beverages | GMP | |

## RIBOFLAVINES

Riboflavin 5'-Phosphate, Sodium INS: 101i Riboflavin 5'-Phosphate INS: 101ii

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.3.2 | Beverage whiteners | GMP | |
| 01.4 | Cream (plain) and the like | GMP | |
| 01.5.2 | Milk and cream powder analogues | GMP | |
| 01.6 | Cheese | GMP | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | GMP | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | GMP | |
| 03.0 | Edible ices, including sherbet and sorbet | 500 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | GMP | |
| 04.1.2.11 | Fruit fillings for pastries | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 10 mg/kg | |

RIBOFLAVINES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | GMP | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.3 | Chewing gum | 1000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | GMP | |
| 06.3 | Breakfast cereals, including rolled oats | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | GMP | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | GMP | |
| 07.0 | Bakery wares | GMP | |
| 08.0 | Meat and meat products, including poultry and game | 1000 mg/kg | |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | GMP | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | GMP | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | GMP | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | GMP | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | GMP | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | |
| 12.4 | Mustards | GMP | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 200 mg/kg | |

RIBOFLAVINES

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.5.2 | Mixes for soups and broths | 30 mg/kg | |
| 12.6 | Sauces and like products | GMP | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | GMP | |
| 12.9 | Protein products | GMP | |
| 13.0 | Foodstuffs intended for particular nutritional uses | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | GMP | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 50 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.2 | Cider and perry | GMP | |
| 14.2.3.1 | Still wine | GMP | |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.3 | Fortified wine and liquor wine | GMP | |
| 14.2.3.4 | Aromatized wine | 100 mg/kg | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.6 | Spirituous beverages | GMP | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | GMP | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | GMP | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | GMP | |

## SACCHARIN

| | | | |
|---|---|---|---|
| Saccharin | INS: 954 | Saccharin (and Sodium, Potassium, Calcium Salts) | INS: 954 |

Function: Flavour Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 400 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 200 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.6.1 | Unripened cheese | 100 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 100 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 160 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 200 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 200 mg/kg | |
| 04.1.2.7 | Candied fruit | 500 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 200 mg/kg | |

SACCHARIN

Function: Flavour Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 100 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 500 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 500 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 2000 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 500 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 500 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 500 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | 500 mg/kg | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 500 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 500 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 3000 mg/kg | |
| 05.3 | Chewing gum | 3000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 100 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 100 mg/kg | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 15 mg/kg | |
| 07.2 | Fine bakery wares | 2000 mg/kg | |
| 08.2.1.1 | Cured (including salted) non-heat treated processed meat, poultry, and game products in whole pieces or cuts | 2000 mg/kg | |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 500 mg/kg | |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 1200 mg/kg | |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 160 mg/kg | |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 2000 mg/kg | |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 160 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 1200 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 100 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 4545 mg/kg | |
| 12.3 | Vinegars | 300 mg/kg | |
| 12.4 | Mustards | 320 mg/kg | |
| 12.5 | Soups and broths | 110 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 500 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 160 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 300 mg/kg | |

SACCHARIN

Function: Flavour Enhancer, Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 200 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 300 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 300 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 500 mg/kg | |
| 13.6 | Food supplements | 1200 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | 300 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 80 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 300 mg/kg | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 300 mg/kg | |
| 14.1.4.1 | Carbonated drinks | 500 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 500 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 2000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 200 mg/kg | |
| 14.2.1 | Beer and malt beverages | 80 mg/kg | |
| 14.2.2 | Cider and perry | 80 mg/kg | |
| 14.2.3 | Wines | 80 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 80 mg/kg | |
| 15.0 | Ready-to-eat savouries | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 200 mg/kg | |

## SALTS OF MYRISTIC, PALMITIC & STEARIC ACIDS (NH4, Ca, K, Na)

SALTS OF MYRISTIC, PALMITIC & STEARIC ACIDS (NH4, Ca, K, Na) INS: 470

Function: Anticaking Agent, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Notes 16 & 71 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Notes 16 & 71 |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Notes 16 & 71 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | Note 71 |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 16 & 71 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 71 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 16 & 71 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Notes 16 & 71 |

OF MYRISTIC, PALMITIC & STEARIC ACIDS (NH4, Ca, K, Na)

Function: Anticaking Agent, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | Note 71 |
| 12.1 | Salt | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 12.8 | Yeast and like products | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | Note 71 |

## SALTS OF OLEIC ACID (Ca, K, Na)

SALTS OF OLEIC ACID (Ca, K, Na) INS: 470

Function: Anticaking Agent, Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## SHELLAC

Shellac INS: 904

Function: Bulking Agent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|

SHELLAC

Function: Bulking Agent, Glazing Agent, Release Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 79 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 4000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 4000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 4000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 07.2 | Fine bakery wares | GMP | Note 3 |
| 13.6 | Food supplements | GMP | Note 3 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | Note 108 |
| 15.0 | Ready-to-eat savouries | GMP | Note 3 |

## SILICON DIOXIDE (AMORPHOUS)

Silicon Dioxide (Amorphous) INS: 551

Function: Anticaking Agent, Filler

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | Note 65 |
| 13.2 | Weaning foods for infants and growing children | 10000 mg/kg | Note 65 |
| 14.2.3 | Wines | 17 mg/kg | |

## SODIUM ACETATE

Sodium Acetate INS: 262i

Function: Acidity Regulator, Preservative, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 5000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 06.1 | Whole, broken, or flaked grain, including rice | 6000 mg/kg | |
| 06.2 | Flours and starches | 6000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 6000 mg/kg | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## SODIUM ALGINATE

Sodium Alginate INS: 401

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 6000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | 100 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 15000 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 8000 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 10000 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 300 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 20000 mg/kg | |

## SODIUM ALUMINIUM PHOSPHATES

Sodium Aluminium Phosphate-Acidic INS: 541i Sodium Aluminium Phosphate-Basic INS: 541ii

Function: Acidity Regulator, Emulsifier, Raising Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.6.4 | Processed cheese | 35000 mg/kg | Note 29 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 2000 mg/kg | Note 6 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 2000 mg/kg | Note 6 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 2000 mg/kg | Note 6 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 2000 mg/kg | Notes 6 & 72 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | GMP | Note 6 |
| 06.2 | Flours and starches | 45000 mg/kg | Note 29 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 2000 mg/kg | Note 6 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 1600 mg/kg | Note 6 |
| 07.1 | Bread and ordinary bakery wares | 2000 mg/kg | Note 6 |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 2000 mg/kg | Note 6 |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 2000 mg/kg | Note 6 |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 15300 mg/kg | Note 29 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 190 mg/kg | Notes 6 & 41 |
| 10.4 | Egg-based desserts (e.g., custard) | 2000 mg/kg | Note 6 |

SODIUM ALUMINIUM PHOSPHATES

Function: Acidity Regulator, Emulsifier, Raising Agent, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 2000 mg/kg | Note 6 |
| 12.6 | Sauces and like products | 2000 mg/kg | Note 6 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 2000 mg/kg | Note 6 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 190 mg/kg | Note 6 |

## SODIUM ALUMINOSILICATE

Sodium Aluminosilicate INS: 554

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 15000 mg/kg | Note 56 |
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |
| 14.2.3 | Wines | GMP | |

## SODIUM ASCORBATE

Sodium Ascorbate INS: 301

Function: Antioxidant, Colour Retention Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1 | Fresh fruit | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.2 | Flours and starches | 300 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 500 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | Note 70 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 12.8 | Yeast and like products | 200 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 3000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 200 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 200 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 300 mg/kg | |
| 14.2.3 | Wines | 200 mg/kg | |

## SODIUM CARBONATE

Sodium Carbonate INS: 500i

Function: Anticaking Agent, Acidity Regulator, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Note 52 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 2600 mg/kg | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## SODIUM CARBOXYMETHYL CELLULOSE

Sodium Carboxymethyl Cellulose INS: 466

Function: Bulking Agent, Emulsifier ,Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | 2000 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 5000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 15000 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 5000 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 5000 mg/kg | |

SODIUM CARBOXYMETHYL CELLULOSE

Function: Bulking Agent, Emulsifier ,Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 5000 mg/kg | |

## SODIUM DIACETATE

Sodium Diacetate INS: 262ii

Function: Acidity Regulator, Preservative, Sequestrant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | GMP | |
| 02.1 | Fats and oils essentially free from water | 1000 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | GMP | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | GMP | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | GMP | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | GMP | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 1000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 3000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 3000 mg/kg | |
| 07.0 | Bakery wares | 4000 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 1000 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 1000 mg/kg | |
| 09.2.4.1 | Cooked fish and fish products | 3000 mg/kg | |
| 10.2 | Egg products | 1000 mg/kg | |
| 10.3 | Preserved eggs, including alkaline, salted, and canned eggs | 1000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 2000 mg/kg | |
| 12.5 | Soups and broths | 500 mg/kg | |
| 12.6 | Sauces and like products | 2500 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 3000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 150 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 500 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 3000 mg/kg | |

## SODIUM DIHYDROGEN CITRATE

Sodium Dihydrogen Citrate INS: 331i

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |

SODIUM DIHYDROGEN CITRATE

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## SODIUM ERYTHORBATE

Sodium Isoascorbate INS: 316

Function: Antioxidant, Colour Retention Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1 | Fats and oils essentially free from water | 100 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 100 mg/kg | Note 52 |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1500 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## SODIUM HYDROGEN CARBONATE

Sodium Hydrogen Carbonate INS: 500ii

Function: Acidity Regulator, Anticaking Agent, Raising Agent, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 2000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 1000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Notes 34 & 52 |
| 06.2 | Flours and starches | 45000 mg/kg | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |

## SODIUM HYDROXIDE

Sodium Hydroxide INS: 524

Function: Acidity Regulator

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 2000 mg/kg | Notes 34 & 52 |
| 06.2 | Flours and starches | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## SODIUM LACTATE

Sodium Lactate INS: 325

Function: Acidity Regulator, Antioxidant, Bulking Agent, Emulsifier, Humectant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | GMP | |
| 08.1 | Fresh meat, poultry, and game | 20000 mg/kg | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## SODIUM SESQUICARBONATE

Sodium Sesquicarbonate INS: 500iii

Function: Acidity Regulator, Anticaking Agent, Raising Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |

## SORBATES

SorbicAcid INS: 200 Sodium Sorbate INS: 201
Potassium Sorbate INS: 202 Calcium Sorbate INS: 203

Function: Antioxidant, Preservative, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | 1000 mg/kg | Note 42 |
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey based drinks) | 300 mg/kg | Note 42 |
| 01.2.1 | Fermented milks (plain) | 300 mg/kg | Note 42 |
| 01.2.2 | Renneted milk | 1000 mg/kg | Note 42 |
| 01.3.2 | Beverage whiteners | 200 mg/kg | Note 42 |
| 01.6 | Cheese | 3000 mg/kg | Note 42 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 1000 mg/kg | Note 42 |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 1000 mg/kg | Note 42 |
| 02.2.1 | Emulsions containing at least 80% fat | 1000 mg/kg | Note 42 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 2000 mg/kg | Note 42 |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 1000 mg/kg | Note 42 |
| 02.4 | Fat-based desserts excluding dairy-based dessert of food category 01.7 | 1000 mg/kg | Note 42 |
| 03.0 | Edible ices, including sherbet and sorbet | 1000 mg/kg | Note 42 |
| 04.1.1 | Fresh fruit | 1000 mg/kg | Note 42 |
| 04.1.2.1 | Frozen fruit | 1000 mg/kg | Note 42 |
| 04.1.2.2 | Dried fruit | 2000 mg/kg | Note 42 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 2000 mg/kg | Note 42 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 1000 mg/kg | Note 42 |
| 04.1.2.5 | Jams, jellies and mannelades | 1500 mg/kg | Note 42 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 1000 mg/kg | Note 42 |
| 04.1.2.7 | Candied fruit | 1000 mg/kg | Note 42 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 1500 mg/kg | Note 42 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-desserts | 1000 mg/kg | Note 42 |
| 04.1.2.10 | Fermented fruit products | 1000 mg/kg | Note 42 |
| 04.1.2.11 | Fruit fillings for pastries | 1000 mg/kg | Note 42 |
| 04.1.2.12 | Cooked or fried fruit | 1200 mg/kg | Note 42 |

SORBATES

Function: Antioxidant, Preservative, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 2000 mg/kg | Note 42 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 1000 mg/kg | Note 42 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 2000 mg/kg | Note 42 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 2000 mg/kg | Note 42 |
| 04.2.2.7 | Fermented vegetable products | 1000 mg/kg | Note 42 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 2000 mg/kg | Note 42 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 1500 mg/kg | Note 42 |
| 05.1.2 | Cocoa-based spreads, including fillings | 1500 mg/kg | Note 42 |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 1000 mg/kg | Note 42 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 1500 mg/kg | Note 42 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 2000 mg/kg | Note 42 |
| 05.3 | Chewing gum | 1500 mg/kg | Note 42 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 1500 mg/kg | Note 42 |
| 06.2 | Flours and starches | 1000 mg/kg | Note 42 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 2000 mg/kg | Note 42 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 1000 mg/kg | Note 42 |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 2000 mg/kg | Note 42 |
| 07.0 | Bakery wares | 2000 mg/kg | Note 42 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 2000 mg/kg | Note 42 |
| 08.3 | Processed comminuted meat, poultry, and game products | 2000 mg/kg | Note 42 |
| 08.4 | Edible casings (e.g., sausage casings) | GMP | Note 42 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | Note 42 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | Note 42 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | Note 42 |
| 09.2.4.1 | Cooked fish and fish products | 2000 mg/kg | Note 42 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 2000 mg/kg | Notes 42 & 82 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | Note 42 |
| 09.3 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms | 2000 mg/kg | Note 42 |
| 10.2.1 | Liquid egg products | 5000 mg/kg | Note 42 |
| 10.2.2 | Frozen egg products | 1000 mg/kg | Note 42 |
| 10.2.3 | Dried and/or heat coagulated egg products | 1000 mg/kg | Note 42 |
| 10.4 | Egg-based desserts (e.g., custard) | 1000 mg/kg | Note 42 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 1000 mg/kg | Note 42 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 1000 mg/kg | Note 42 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 1000 mg/kg | Note 42 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 1000 mg/kg | Note 42 |
| 12.3 | Vinegars | 1000 mg/kg | Note 42 |

SORBATES

Function: Antioxidant, Preservative, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.4 | Mustards | 1500 mg/kg | Note 42 |
| 12.5 | Soups and broths | 1000 mg/kg | Note 42 |
| 12.6 | Sauces and like products | 2000 mg/kg | Note 42 |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 3350 mg/kg | Note 42 |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 1500 mg/kg | Note 42 |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1500 mg/kg | Note 42 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 1500 mg/kg | Note 42 |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 2000 mg/kg | Note 42 |
| 13.6 | Food supplements | 2000 mg/kg | Note 42 |
| 14.1.1.2 | Table waters and soda waters | 200 mg/kg | Note 42 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2100 mg/kg | Note 42 |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | 1000 mg/kg | Note 42 |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 1000 mg/kg | Note 42 |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | 1000 mg/kg | Note 42 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 2000 mg/kg | Note 42 |
| 14.1.3.2 | Canned or bottled (pasteurized) vegetable nectar | 1000 mg/kg | Note 42 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 1000 mg/kg | Note 42 |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 1000 mg/kg | Note 42 |
| 14.1.4.1 | Carbonated drinks | 1000 mg/kg | Note 42 |
| 14.1.4.2 | Non-carbonated, including punches and ades | 1000 mg/kg | Note 42 |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 1500 mg/kg | Note 42 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 1000 mg/kg | Note 42 |
| 14.2.1 | Beer and malt beverages | 500 mg/kg | Note 42 |
| 14.2.2 | Cider and perry | 1000 mg/kg | Note 42 |
| 14.2.3 | Wines | 2000 mg/kg | Note 42 |
| 14.2.4 | Fruit wine | 1000 mg/kg | Note 42 |
| 14.2.5 | Mead | 1000 mg/kg | Note 42 |
| 14.2.6 | Spirituous beverages | 600 mg/kg | Note 42 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 1000 mg/kg | Note 42 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 1000 mg/kg | Note 42 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 1000 mg/kg | Note 42 |

## SORBITAN ESTERS OF FATTY ACIDS

| | | | |
|---|---|---|---|
| Sorbitan Monostearate | INS: 491 | Sorbitan Tristearate | INS: 492 |
| Sorbitan Monolaurate | INS: 493 | Sorbitan Monooleate | INS: 494 |
| Sorbitan Monopalmitate | INS: 495 | | |

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4.4 | Cream analogues | 5000 mg/kg | |

SORBITAN ESTERS OF FATTY ACIDS

Function: Emulsifier, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.5.2 | Milk and cream powder analogues | 4000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 30000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 1200 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.2.5 | Jams, jellies and marmelades | 25 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 5000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 5000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 10000 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 5000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.0 | Confectionery | 20000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 5000 mg/kg | |
| 07.1.1 | Breads and rolls | 10000 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 5000 mg/kg | Note 11 |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 10000 mg/kg | Note 11 |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 5000 mg/kg | Note 11 |
| 07.1.5 | Steamed breads and buns | 5000 mg/kg | Note 11 |
| 07.2 | Fine bakery wares | 10000 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 3500 mg/kg | |
| 10.2 | Egg products | 500 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |
| 12.5.1 | Ready-to-eat soups and broths, including canned, bottled, and frozen | 250 mg/kg | |
| 12.5.2 | Mixes for soups and broths | 250 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 5000 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 10000 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 4000 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 5000 mg/kg | |
| 12.8 | Yeast and like products | 15000 mg/kg | Note 104 |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | Note 83 |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | GMP | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 500 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 800 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 5000 mg/kg | |
| 14.2.3 | Wines | GMP | |

## SORBITOL (INCLUDING SORBITOL SYRUP)

Sorbitol and Sorbitol Syrup INS: 420

Function: Bulking Agent, Emulsifier, Humectant, Sequestrant, Stabilizer, Sweetener, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 5000 mg/kg | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 35000 mg/kg | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

## STARCH ACETATE

Starch Acetate Esterified with Acetic Anhydride INS: 1420

Starch Acetate Esterified with Vinyl Acetate INS: 1421

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 10000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 13.2 | Weaning foods for infants and growing children | 50000 mg/kg | |

## STARCH SODIUM OCTENYL SUCCINATE

Starch Sodium Octenyl Succinate INS: 1450

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 13.2 | Weaning foods for infants and growing children | 50000 mg/kg | |

## STEAROYL-2-LACTYLATES

Sodium Stearoyl Lactylate INS: 481i Calcium Stearoyl Lactylate INS: 482i

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 5000 mg/kg | |
| 01.4.4 | Cream analogues | 10000 mg/kg | Note 2 |
| 01.5.1 | Milk powder and cream powder (plain) | 2000 mg/kg | |
| 01.6.5 | Cheese analogues | 2000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 10000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | 3000 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 20000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 5000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 5000 mg/kg | Note 15 |
| 04.1.2.7 | Candied fruit | 2000 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 187 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 10000 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 10000 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 5000 mg/kg | Note 76 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 5000 mg/kg | Note 2 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 2000 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 5000 mg/kg | Note 2 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 5000 mg/kg | |
| 05.3 | Chewing gum | 20000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 06.1 | Whole, broken, or flaked grain, including rice | 4000 mg/kg | |
| 06.2 | Flours and starches | 5000 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 5000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 4500 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 6000 mg/kg | |

STEAROYL-2-LACTYLATES

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 7500 mg/kg | Note 2 |
| 07.0 | Bakery wares | 10000 mg/kg | |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 4000 mg/kg | |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 4000 mg/kg | |
| 10.2 | Egg products | 500 mg/kg | |
| 10.2.3 | Dried and/or heat coagulated egg products | 5000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 10000 mg/kg | |
| 12.4 | Mustards | 2500 mg/kg | |
| 12.6 | Sauces and like products | 2500 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 10000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 2000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 2000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 2000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 2000 mg/kg | Note 2 |
| 14.2.6 | Spirituous beverages | 8000 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 5000 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 2500 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 5000 mg/kg | |

## STEARYL TARTRATE

Stearyl Tartrate INS: 483

Function: Emulsifier, Flour Treatment Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 5000 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 5000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 5000 mg/kg | |
| 07.0 | Bakery wares | 4000 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |

## SUCRALOSE

Sucralose INS: 955

SUCRALOSE

Function: Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 300 mg/kg | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 250 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 400 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 250 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 400 mg/kg | |
| 04.1.2.1 | Frozen fruit | 150 mg/kg | |
| 04.1.2.2 | Dried fruit | 150 mg/kg | |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 150 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 450 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 450 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 800 mg/kg | |
| 04.1.2.7 | Candied fruit | 800 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 450 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 1250 mg/kg | |
| 04.1.2.10 | Fermented fruit products | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 250 mg/kg | |
| 04.1.2.12 | Cooked or fried fruit | 150 mg/kg | |
| 04.2.2.1 | Frozen vegetables | 150 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 150 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 450 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 150 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 1500 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 500 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | 150 mg/kg | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 150 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 1500 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 1500 mg/kg | |
| 05.3 | Chewing gum | 5000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 1000 mg/kg | |
| 06.1 | Whole, broken, or flaked grain, including rice | 600 mg/kg | |
| 06.2 | Flours and starches | 600 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 1000 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 600 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 1250 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 600 mg/kg | |
| 06.7 | Rice cakes (Oriental type only) | 600 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | 750 mg/kg | |
| 07.2.1 | Cakes, cookies and pies (e.g., fruit-filled or custard types) | 750 mg/kg | |
| 07.2.2 | Other fine bakery products (e.g., doughnuts, sweet rolls, scones, and muffins) | 800 mg/kg | |
| 07.2.3 | Mixes for fine bakery wares (e.g., cakes, pancakes) | 750 mg/k | |

SUCRALOSE

Function: Sweetener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 450 mg/kg | |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 450 mg/kg | |
| 10.4 | Egg-based desserts (e.g., custard) | 250 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 1500 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 1500 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 700 mg/kg | |
| 12.4 | Mustards | 400 mg/kg | |
| 12.5 | Soups and broths | 1250 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 1250 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 1250 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 450 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 450 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 1250 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 400 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 1250 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 800 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 250 mg/kg | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | 250 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 1250 mg/kg | |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | 1250 mg/kg | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 250 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 1250 mg/kg | |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 1250 mg/kg | |
| 14.1.4.1 | Carbonated drinks | 600 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 600 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 1250 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 250 mg/kg | |
| 14.2 | Alcoholic beverages, including alcohol-free and low-alcoholic counterparts | 700 mg/kg | |
| 15.0 | Ready-to-eat savouries | 1000 mg/kg | |

## SUCROGLYCERIDES

Sucroglycerides INS: 474

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 20000 mg/kg | |

SUCROGLYCERIDES

Function: Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.5.1 | Milk powder and cream powder (plain) | 10000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 5000 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 10000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 5000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 5000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.1.1 | Cocoa mixes (powders and syrups) | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 5000 mg/kg | |
| 05.3 | Chewing gum | 15000 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 5000 mg/kg | |
| 07.2 | Fine bakery wares | 10000 mg/kg | |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 5000 mg/kg | Note 15 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 5000 mg/kg | Note 15 |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |
| 12.5 | Soups and broths | 2000 mg/kg | |
| 12.6 | Sauces and like products | 10000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 1000 mg/kg | |
| 14.2.2 | Cider and perry | 5000 mg/kg | |
| 14.2.4 | Fruit wine | 5000 mg/kg | |
| 14.2.5 | Mead | 5000 mg/kg | |
| 14.2.6 | Spirituous beverages | 5000 mg/kg | |

## SUCROSE ESTERS OF FATTY ACIDS

Sucrose Esters of Fatty Acids INS: 473

Function: Adjuvant, Emulsifiers, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 5000 mg/kg | |
| 01.3.2 | Beverage whiteners | 20000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 01.4.4 | Cream analogues | GMP | |

SUCROSE ESTERS OF FATTY ACIDS

Function: Adjuvant, Emulsifiers, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.5.1 | Milk powder and cream powder (plain) | 10000 mg/kg | |
| 01.5.2 | Milk and cream powder analogues | 10000 mg/kg | |
| 01.6.4 | Processed cheese | 10000 mg/kg | |
| 01.6.5 | Cheese analogues | 10000 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 10000 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 5000 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 10000 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 10000 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 10000 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 10000 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 5000 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 1500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 5000 mg/kg | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 3000 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 5000 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 10000 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 20000 mg/kg | |
| 05.3 | Chewing gum | 15000 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 10000 mg/kg | |
| 06.0 | Cereals and cereal products, including flours and starches from roots and tubers, pulses and legumes, excluding bakery wares of food category 07.0 | 10000 mg/kg | |
| 07.1 | Bread and ordinary bakery wares | GMP | |
| 07.2 | Fine bakery wares | 10000 mg/kg | |
| 08.2.2 | Heat-treated processed meat, poultry, and game products in whole pieces or cuts | 5000 mg/kg | Note 15 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 5000 mg/kg | Note 15 |
| 08.4 | Edible casings (e.g., sausage casings) | 5000 mg/kg | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 10000 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.4 | Egg-based desserts (e.g., custard) | 5000 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 5000 mg/kg | |
| 12.5 | Soups and broths | 5000 mg/kg | |
| 12.6 | Sauces and like products | 10000 mg/kg | |

SUCROSE ESTERS OF FATTY ACIDS

Function: Adjuvant, Emulsifiers, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.1 | Infant formulae and follow-on formulae | 5000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 5000 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 5000 mg/kg | |
| 13.6 | Food supplements | GMP | |
| 14.1.4.1 | Carbonated drinks | 1000 mg/kg | |
| 14.1.4.2 | Non-carbonated, including punches and ades | 5000 mg/kg | |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 10000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | 5000 mg/kg | |
| 14.2.2 | Cider and perry | 5000 mg/kg | |
| 14.2.4 | Fruit wine | 5000 mg/kg | |
| 14.2.5 | Mead | 5000 mg/kg | |
| 14.2.6 | Spirituous beverages | 5000 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 10000 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 10000 mg/kg | |

## SULPHITES

| | | | |
|---|---|---|---|
| Sulphur Dioxide | INS: 220 | Sodium Sulphite | INS: 221 |
| Sodium Hydrogen Sulphite | INS: 222 | Sodium Metabisulphite | INS: 223 |
| Potassium Metabisuphite | INS: 224 | Potassium Sulphite | INS: 225 |
| Calcium Hydrogen Sulphite | INS: 227 | Potassium Bisulphite | INS: 228 |
| Sodium Thiosulphate | INS: 539 | | |

Function: Acidity Regulator, Adjuvant, Antioxidant, Bleaching Agent (Not for Flour), Flour Treatment Agent, Firming Agent, Preservative, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 50 mg/kg | Notes 12 & 44 |
| 01.6.4.1 | Plain processed cheese | 300 mg/kg | Note 44 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 100 mg/kg | Note 44 |
| 03.0 | Edible ices, including sherbet and sorbet | 100 mg/kg | Note 44 |
| 04.1.1.2 | Surface-treated fresh fruit | 30 mg/kg | Note 44 |
| 04.1.2.1 | Frozen fruit | 500 mg/kg | Note 44 |
| 04.1.2.2 | Dried fruit | 3000 mg/kg | Note 44 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 350 mg/kg | Note 44 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 350 mg/kg | Note 44 |
| 04.1.2.5 | Jams, jellies and marmelades | 3000 mg/kg | Note 44 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | Note 44 |
| 04.1.2.7 | Candied fruit | 350 mg/kg | Note 44 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 3000 mg/kg | Note 44 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 750 mg/kg | Note 44 |
| 04.1.2.10 | Fermented fruit products | 350 mg/kg | Note 44 |
| 04.1.2.11 | Fruit fillings for pastries | 350 mg/kg | Note 44 |
| 04.1.2.12 | Cooked or fried fruit | GMP | Note 44 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | 500 mg/kg | Note 44 |

SULPHITES

Function: Acidity Regulator, Adjuvant, Antioxidant, Bleaching Agent (Not for Flour), Flour Treatment Agent, Firming Agent, Preservative, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.2.2.1 | Frozen vegetables | 750 mg/kg | Note 44 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 2500 mg/kg | Notes 44 & 105 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 750 mg/kg | Note 44 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 750 mg/kg | Note 44 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 2000 mg/kg | Note 44 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 800 mg/kg | Note 44 |
| 04.2.2.7 | Fermented vegetable products | 1000 mg/kg | Note 44 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 750 mg/kg | Note 44 |
| 05.1.1 | Cocoa mixes (powders and syrups) | 2000 mg/kg | Note 44 |
| 05.1.2 | Cocoa-based spreads, including fillings | 2000 mg/kg | Note 44 |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 150 mg/kg | Note 44 |
| 05.1.4 | Imitation chocolate, chocolate substitue products | 2000 mg/kg | Note 44 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 2000 mg/kg | Note 44 |
| 05.3 | Chewing gum | 2000 mg/kg | Note 44 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 150 mg/kg | Note 44 |
| 06.1 | Whole, broken, or flaked grain, including rice | 400 mg/kg | Note 44 |
| 06.2 | Flours and starches | 900 mg/kg | Note 44 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 20 mg/kg | Note 44 |
| 07.1.1 | Breads and rolls | 100 mg/kg | Note 29 |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 50 mg/kg | Note 44 |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 500 mg/kg | Note 44 |
| 07.2 | Fine bakery wares | 300 mg/kg | Note 44 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 450 mg/kg | Note 44 |
| 08.3 | Processed comminuted meat, poultry, and game products | 500 mg/kg | Note 44 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 44 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 200 mg/kg | Note 44 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | Note 44 |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 50 mg/kg | Note 44 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 450 mg/kg | Note 44 |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 300 mg/kg | Note 44 |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 500 mg/kg | Note 44 |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 40 mg/kg | Note 44 |
| 12.1 | Salt | 1000 mg/kg | Note 29 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | Note 44 |
| 12.3 | Vinegars | 200 mg/kg | Note 44 |
| 12.4 | Mustards | 250 mg/kg | Notes 44 & 106 |
| 12.5 | Soups and broths | 1000 mg/kg | Note 44 |
| 12.6 | Sauces and like products | 300 mg/kg | Note 44 |

SULPHITES

Function: Acidity Regulator, Adjuvant, Antioxidant, Bleaching Agent (Not for Flour), Flour Treatment Agent, Firming Agent, Preservative, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.9 | Protein products | 500 mg/kg | Note 44 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 600 mg/kg | Note 44 |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | 500 mg/kg | Note 44 |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 500 mg/kg | Notes 44 & 107 |
| 14.1.2.4 | Concentrate (liquid or solid) for vegetable juice | 70 mg/kg | Note 44 |
| 14.1.3 | Fruit and vegetable nectars | 50 mg/kg | Note 44 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 70 mg/kg | Note 44 |
| 14.1.3.4 | Concentrate (liquid or solid) for vegetable nectar | 70 mg/kg | Note 44 |
| 14.1.4.1 | Carbonated drinks | 115 mg/kg | Note 44 |
| 14.1.4.2 | Non-carbonated, including punches and ades | 250 mg/kg | Note 44 |
| 14.1.4.3 | Concentrates (liquid or solid) for drinks | 350 mg/kg | Note 44 |
| 14.2 | Alcoholic beverages, including alcohol-free and low-alcoholic counterparts | 350 mg/kg | Notes 44 & 103 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | Note 44 |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 500 mg/kg | Note 44 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | Note 44 |

## SUNSET YELLOW FCF

Sunset Yellow FCF INS: 110

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 300 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 12 mg/kg | Note 12 |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.2 | Dried fruit | 50 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |

SUNSET YELLOW FCF

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 369 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 300 mg/kg | Note 76 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 100 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 04.2.2.7 | Fermented vegetable products | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 400 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 400 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 350 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 300 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 07.0 | Bakery wares | 300 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | 500 mg/kg | Note 16 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 500 mg/kg | Note 16 |
| 08.3.1.1 | Cured (including salted) non-heat treated processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.3.1.2 | Cured (including salted) and dried non-heat treated processed comminuted meat, poultry, and game products | 135 mg/kg | |
| 08.3.1.3 | Fermented non-heat treated processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.3.2 | Heat-treated processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.3.3 | Frozen processed comminuted meat, poultry, and game products | 500 mg/kg | Note 16 |
| 08.4 | Edible casings (e.g., sausage casings) | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |

T YELLOW FCF

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 300 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 200 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 300 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## TALC

Talc INS: 553iii

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |

TALC

Function: Anticaking Agent

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 12.1 | Salt | 20000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 10000 mg/kg | Note 51 |

## TANNIC ACID (TANNINS, FOOD GRADE)

Tannic Acid (Tannins, Food Grade) INS: 181

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 400 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 50 mg/kg | Note 7 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 50 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 50 mg/kg | |
| 05.1.2 | Cocoa-based spreads, including fillings | 50 mg/kg | |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 400 mg/kg | |
| 05.3 | Chewing gum | GMP | |
| 07.0 | Bakery wares | 100 mg/kg | |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 10 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 10 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 50 mg/kg | |
| 14.2.1 | Beer and malt beverages | 150 mg/kg | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3 | Wines | 200 mg/kg | |
| 14.2.3 | Wines | 3000 mg/kg | |
| 14.2.4 | Fruit wine | GMP | |
| 14.2.4 | Fruit wine | 150 mg/kg | |
| 14.2.5 | Mead | GMP | |
| 14.2.5 | Mead | 150 mg/kg | |
| 14.2.6 | Spirituous beverages | GMP | |
| 14.2.6 | Spirituous beverages | 150 mg/kg | |

## TARA GUM

Tara Gum INS: 417

Function: Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |

TARA GUM

Function: Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.1 | Whole, broken, or flaked grain, including rice | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 52 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 73 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 73 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | 1000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## TARTARIC, ACETIC & FATTY ACID ESTERS OF GLYCEROL (MIXED)

Tartaric, Acetic & Fatty Acid Esters of Glycerol (Mixed) INS: 472f

Function: Emulsifier, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 10000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |

TARTARIC, ACETIC & FATTY ACID ESTERS OF GLYCEROL (MIXED)

Function: Emulsifier, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## TARTRATES

| | | | |
|---|---|---|---|
| Tartaric Acid (L(+)-) | INS: 334 | Monosodium Tartrate | INS: 335i |
| Disodium Tartrate | INS: 335ii | Monopotassium Tartrate | INS: 336i |
| Dipotassium Tartrate | INS: 336ii | Potassium Sodium Tartrate | INS: 337 |

Function: Anticaking Agent, Acidity Regulator, Adjuvant, Antioxidant, Bulking Agent, Emulsifier, Flour Treatment Agent, Humectant, Preservative, Raising Agent, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1 | Fermented milks (plain) | GMP | Note 45 |
| 01.6.1 | Unripened cheese | 26170 mg/kg | Notes 5 & 45 |
| 01.6.2 | Ripened cheese | GMP | Note 45 |
| 01.6.3 | Whey cheese | GMP | Note 45 |
| 01.6.4 | Processed cheese | 34900 mg/kg | Note 45 |
| 01.6.5 | Cheese analogues | GMP | Note 45 |
| 01.6.6 | Whey protein cheese | GMP | Note 45 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 2000 mg/kg | Note 45 |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | GMP | Note 45 |
| 02.1 | Fats and oils essentially free from water | GMP | Note 45 |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 45 |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 100 mg/kg | Note 45 |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | GMP | Note 45 |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | GMP | Notes 2 & 45 |
| 03.0 | Edible ices, including sherbet and sorbet | 2000 mg/kg | Note 45 |
| 04.1.1 | Fresh fruit | 1300 mg/kg | Note 45 |
| 04.1.2.1 | Frozen fruit | 1300 mg/kg | Note 45 |
| 04.1.2.2 | Dried fruit | 1300 mg/kg | Note 45 |
| 04.1.2.3 | Fruit in vinegar, oil, or brine | 1300 mg/kg | Note 45 |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 1300 mg/kg | Note 45 |
| 04.1.2.5 | Jams, jellies and marmelades | 3000 mg/kg | Note 45 |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 3000 mg/kg | Note 45 |
| 04.1.2.7 | Candied fruit | 1300 mg/kg | Note 45 |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 1300 mg/kg | Note 45 |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 1300 mg/kg | Note 45 |

TARTRATES

Function: Anticaking Agent, Acidity Regulator, Adjuvant, Antioxidant, Bulking Agent, Emulsifier, Flour Treatment Agent, Humectant, Preservative, Raising Agent, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 04.1.2.10 | Fermented fruit products | 1300 mg/kg | Note 45 |
| 04.1.2.11 | Fruit fillings for pastries | 10000 mg/kg | Note 45 |
| 04.1.2.12 | Cooked or fried fruit | 1300 mg/kg | Note 45 |
| 04.2.1 | Fresh vegetables, and nuts and seeds | 1300 mg/kg | Note 45 |
| 04.2.2.1 | Frozen vegetables | 1300 mg/kg | Note 45 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 1300 mg/kg | Note 45 |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 15000 mg/kg | Note 45 |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 10000 mg/kg | Note 45 |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 1300 mg/kg | Note 45 |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 2000 mg/kg | Note 45 |
| 04.2.2.7 | Fermented vegetable products | 1300 mg/kg | Note 45 |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 1300 mg/kg | Note 45 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 10000 mg/kg | Note 45 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 20000 mg/kg | Note 45 |
| 05.3 | Chewing gum | 30000 mg/kg | Note 45 |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 8000 mg/kg | Note 45 |
| 06.2 | Flours and starches | GMP | Note 45 |
| 06.4.1 | Fresh pastas and noodles and like products | GMP | Note 45 |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 2860 mg/kg | Note 45 |
| 07.0 | Bakery wares | 10000 mg/kg | Note 45 |
| 08.0 | Meat and meat products, including poultry and game | GMP | Note 45 |
| 10.4 | Egg-based desserts (e.g., custard) | 2000 mg/kg | Note 45 |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | GMP | Note 45 |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 7500 mg/kg | Note 45 |
| 12.4 | Mustards | 5000 mg/kg | Note 45 |
| 12.5 | Soups and broths | 5000 mg/kg | Note 45 |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 5000 mg/kg | Note 45 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 3000 mg/kg | Note 45 |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 5000 mg/kg | Note 45 |
| 12.6.3 | Mixes for sauces and gravies | GMP | Note 45 |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | GMP | Note 45 |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | Note 45 |
| 14.1.2 | Fruit and vegetable juices | 4000 mg/kg | Note 45 |
| 14.1.3 | Fruit and vegetable nectars | 1600 mg/kg | Note 45 |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 3000 mg/kg | Note 45 |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 3000 mg/kg | Note 45 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 3000 mg/kg | Note 45 |
| 14.2.1 | Beer and malt beverages | 2000 mg/kg | Note 45 |
| 14.2.2 | Cider and perry | 2000 mg/kg | Note 45 |
| 14.2.3.1 | Still wine | 9000 mg/kg | Note 45 |
| 14.2.3.2 | Sparkling and semi-sparkling wines | 2560 mg/kg | Note 45 |
| 14.2.3.3 | Fortified wine and liquor wine | 2560 mg/kg | Note 45 |
| 14.2.3.4 | Aromatized wine | 2560 mg/kg | Note 45 |

TARTRATES

Function: Anticaking Agent, Acidity Regulator, Adjuvant, Antioxidant, Bulking Agent, Emulsifier, Flour Treatment Agent, Humectant, Preservative, Raising Agent, Sequestrant, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 14.2.4 | Fruit wine | GMP | Note 45 |
| 14.2.5 | Mead | GMP | Note 45 |
| 14.2.6 | Spirituous beverages | 3000 mg/kg | Note 45 |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 600 mg/kg | Notes 2 & 45 |

## TARTRAZINE

Tartrazine INS: 102

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.2 | Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks) | 300 mg/kg | |
| 01.2.1 | Fermented milks (plain) | 18 mg/kg | Note 12 |
| 01.3.2 | Beverage whiteners | 300 mg/kg | |
| 01.6.1 | Unripened cheese | GMP | Note 3 |
| 01.6.2.2 | Rind of ripened cheese | 100 mg/kg | |
| 01.6.3 | Whey cheese | GMP | Note 3 |
| 01.6.4 | Processed cheese | 200 mg/kg | |
| 01.6.5 | Cheese analogues | GMP | Note 3 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 300 mg/kg | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | GMP | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 300 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 300 mg/kg | |
| 04.1.1.2 | Surface-treated fresh fruit | 500 mg/kg | Note 16 |
| 04.1.2.2 | Dried fruit | 200 mg/kg | |
| 04.1.2.4 | Canned or bottled (pasteurized) fruit | 200 mg/kg | |
| 04.1.2.5 | Jams, jellies and marmelades | 500 mg/kg | |
| 04.1.2.6 | Fruit-based spreads (e.g., chutney) excluding products of food category 04.1.2.5 | 500 mg/kg | |
| 04.1.2.7 | Candied fruit | 300 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 500 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 300 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 300 mg/kg | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | 500 mg/kg | Note 16 |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 300 mg/kg | |
| 04.2.2.3 | Vegetables and seaweeds in vinegar, oil, brine, or soy sauce | 500 mg/kg | |
| 04.2.2.4 | Canned or bottled (pasteurized) or retort pouch vegetables | 200 mg/kg | |
| 04.2.2.6 | Vegetable, and nut and seed pulps and preparations (e.g., vegetable desserts and sauces, candied vegetables, soybean curd) other than food category 04.2.2.5 | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 300 mg/kg | |

TARTRAZINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 300 mg/kg | |
| 05.3 | Chewing gum | 300 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 300 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 300 mg/kg | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 300 mg/kg | |
| 07.0 | Bakery wares | 300 mg/kg | |
| 08.0 | Meat and meat products, including poultry and game | 500 mg/kg | Note 16 |
| 09.1.1 | Fresh fish | 300 mg/kg | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | 500 mg/kg | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | 250 mg/kg | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | Note 22 |
| 09.3.1 | Fish and fish products, including mollusks, crustaceans, and echinoderms, marinated and/or in jelly | 500 mg/kg | Note 16 |
| 09.3.2 | Fish and fish products, including mollusks, crustaceans, and echinoderms, pickled and/or in brine | 500 mg/kg | Note 16 |
| 09.3.3 | Salmon substitutes, caviar, and other fish roe products | 500 mg/kg | |
| 09.3.4 | Semi-preserved fish and fish products, including mollusks, crustaceans, and echinoderms (e.g., fish paste), excluding products of food categories 09.3.1 - 09.3.3 | 500 mg/kg | |
| 09.4 | Fully preserved, including canned or fermented fish and fish products, including mollusks, crustaceans, and echinoderms | 500 mg/kg | |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |
| 10.4 | Egg-based desserts (e.g., custard) | 300 mg/kg | |
| 11.1 | White and semi-white sugar (sucrose or saccharose), fructose, glucose (dextrose), xylose; sugar solutions and syrups, also (partially) inverted sugars, incl. molasses, treacle, and sugar toppings | 300 mg/kg | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 300 mg/kg | |
| 11.4 | Table-top sweeteners, including those containing high-intensity sweeteners | 300 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 500 mg/kg | |
| 12.4 | Mustards | 300 mg/kg | |
| 12.5 | Soups and broths | 300 mg/kg | |
| 12.6 | Sauces and like products | 500 mg/kg | |
| 12.9 | Protein products | 100 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 50 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 50 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 50 mg/kg | |
| 13.4 | Dietetic formulae for slimming purposes and weight reduction | 50 mg/kg | |

TARTRAZINE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.5 | Dietetic foods (e.g., supplementary foods for dietary use) excluding products of food categories 13.1 - 13.4 | 300 mg/kg | |
| 13.6 | Food supplements | 300 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | GMP | |
| 14.1.2.2 | Canned or bottled (pasteurized) vegetable juice | GMP | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | 300 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | 300 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 300 mg/kg | |
| 14.2.1 | Beer and malt beverages | GMP | |
| 14.2.2 | Cider and perry | 200 mg/kg | |
| 14.2.3.4 | Aromatized wine | 200 mg/kg | |
| 14.2.4 | Fruit wine | 200 mg/kg | |
| 14.2.6.1 | Spirituous beverages containing more than 15% alcohol | 300 mg/kg | |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 200 mg/kg | |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 300 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 100 mg/kg | |
| 16.0 | Composite foods (e.g., casseroles, meat pies, mincemeat) - foods that could not be placed in categories 01 - 15 | 500 mg/kg | |

## TBHQ

Tertiary Butylhydroquinone INS: 319

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.3.1 | Condensed milk (plain) | 200 mg/kg | Note 88 |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 02.0 | Fats and oils, and fat emulsions (type water-in-oil) | 200 mg/kg | Note 15 |
| 02.1 | Fats and oils essentially free from water | 200 mg/kg | |
| 02.2 | Fat emulsions mainly of type water-in-oil | 200 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 200 mg/kg | Note 15 |
| 04.1.2.2 | Dried fruit | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 200 mg/kg | Note 15 |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 200 mg/kg | Note 15 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 200 mg/kg | Note 15 |
| 05.3 | Chewing gum | 750 mg/kg | |
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 200 mg/kg | Note 15 |
| 07.1.1 | Breads and rolls | 200 mg/kg | |
| 07.1.2 | Crackers, excluding sweet crackers | 200 mg/kg | |
| 07.1.3 | Other ordinary bakery products (e.g., bagels, pita, English muffins) | 200 mg/kg | |
| 07.1.4 | Bread-type products, including bread stuffing and bread crumbs | 200 mg/kg | |
| 08.1 | Fresh meat, poultry, and game | 100 mg/kg | Note 15 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 100 mg/kg | Note 15 |
| 08.3 | Processed comminuted meat, poultry, and game products | 100 mg/kg | Note 15 |

TBHQ

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 1000 mg/kg | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | 200 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 200 mg/kg | Note 15 |
| 12.4 | Mustards | 200 mg/kg | |
| 12.5 | Soups and broths | 200 mg/kg | Note 15 |
| 12.6 | Sauces and like products | 200 mg/kg | Note 15 |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 15 |
| 15.0 | Ready-to-eat savouries | 200 mg/kg | Note 15 |

## THAUMATIN

Thaumatin INS: 957

Function: Sweetener, Flavour Enhancer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 500 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 400 mg/kg | Note 51 |

## TITANIUM DIOXIDE

Titanium Dioxide INS: 171

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 1000 mg/kg | Note 94 |
| 09.1.1 | Fresh fish | GMP | Note 50 |
| 09.1.2 | Fresh mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 95 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 22 |
| 10.1 | Fresh eggs | GMP | Notes 3 & 4 |

TITANIUM DIOXIDE

Function: Colour

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.2.3.2 | Sparkling and semi-sparkling wines | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## TOCOPHEROLS

Mixed Tocopherols Concentrate INS: 306 Alpha-Tocopherol INS: 307

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1 | Milk and dairy-based drinks | 200 mg/kg | |
| 01.2 | Fermented and renneted milk products (plain), excluding food category 01.1.2 (dairy-based drinks) | 200 mg/kg | |
| 01.3 | Condensed milk and analogues | 200 mg/kg | |
| 01.4 | Cream (plain) and the like | 200 mg/kg | |
| 01.5.1 | Milk powder and cream powder (plain) | 5000 mg/kg | |
| 01.5.2 | Milk and cream powder analogues | 200 mg/kg | |
| 01.5.3 | Milk and cream (blend) powder (plain and flavoured) | 200 mg/kg | |
| 01.6 | Cheese | 200 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 200 mg/kg | |
| 01.7 | Dairy-based desserts (e.g., ice cream, ice milk, pudding, fruit or flavoured yoghurt) | 500 mg/kg | |
| 01.8 | Whey and whey products, excluding whey cheeses | 200 mg/kg | |
| 02.1.1 | Butter oil, anhydrous milkfat, ghee | 500 mg/kg | |
| 02.1.2 | Vegetable oils and fats | 300 mg/kg | |
| 02.1.3 | Lard, tallow, fish oil, and other animal fats | 300 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | |
| 02.2.1.2 | Margarine and similar products (e.g., butter-margarine blends) | 500 mg/kg | |
| 02.2.2 | Emulsions containing less than 80% fat (e.g., minarine) | 500 mg/kg | |
| 02.3 | Fat emulsions other than food category 02.2, including mixed and/or flavoured products based on fat emulsions | 200 mg/kg | |
| 02.4 | Fat-based desserts excluding dairy-based dessert products of food category 01.7 | 200 mg/kg | |
| 03.0 | Edible ices, including sherbet and sorbet | 500 mg/kg | Note 15 |
| 04.1.2.2 | Dried fruit | 200 mg/kg | |
| 04.1.2.8 | Fruit preparations, including pulp, purees, fruit toppings and coconut milk | 150 mg/kg | |
| 04.1.2.9 | Fruit-based desserts, including fruit-flavoured water-based desserts | 150 mg/kg | |
| 04.1.2.11 | Fruit fillings for pastries | 150 mg/kg | |
| 04.2.2.2 | Dried vegetables, seaweeds, and nuts and seeds | 200 mg/kg | |
| 04.2.2.5 | Vegetable, and nut and seed purees and spreads (e.g., peanut butter) | 25 mg/kg | |
| 04.2.2.8 | Cooked or fried vegetables and seaweeds | 200 mg/kg | |
| 05.1 | Cocoa products and chocolate products including imitations and chocolate substitutes | 500 mg/kg | Note 15 |
| 05.1.3 | Cocoa and chocolate products (e.g., milk chocolate bar, chocolate flakes, white chocolate) other than food categories 05.1.1, 05.1.2 and 05.1.4 | 750 mg/kg | Note 15 |
| 05.2 | Confectionery including hard and soft candy, nougat, etc. other than food categories 05.1, 05.3 and 05.4 | 500 mg/kg | Note 15 |
| 05.3 | Chewing gum | 1500 mg/kg | |

TOCOPHEROLS

Function: Antioxidant

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 05.4 | Decorations (e.g., for fine bakery wares), toppings (non-fruit) and sweet sauces | 500 mg/kg | Note 15 |
| 06.2 | Flours and starches | 600 mg/kg | |
| 06.3 | Breakfast cereals, including rolled oats | 85 mg/kg | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | |
| 06.5 | Cereal and starch based desserts (e.g., rice pudding, tapioca pudding) | 150 mg/kg | |
| 06.6 | Batters (e.g., for breading ro batters for fish or poultry) | 5 mg/kg | |
| 07.0 | Bakery wares | 200 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | 300 mg/kg | Note 15 |
| 08.2 | Processed meat, poultry, and game products in whole pieces or cuts | 3000 mg/kg | |
| 08.3 | Processed comminuted meat, poultry, and game products | 3000 mg/kg | |
| 08.4 | Edible casings (e.g., sausage casings) | 5000 mg/kg | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 15 |
| 10.4 | Egg-based desserts (e.g., custard) | 150 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | 1000 mg/kg | |
| 12.4 | Mustards | 200 mg/kg | |
| 12.5 | Soups and broths | 200 mg/kg | |
| 12.6 | Sauces and like products | 300 mg/kg | |
| 12.6.1 | Emulsified sauces (e.g., mayonnaise, salad dressing) | 600 mg/kg | |
| 12.6.2 | Non-emulsified sauces (e.g., ketchup, cheese sauce, cream sauce, brown gravy) | 600 mg/kg | |
| 12.6.3 | Mixes for sauces and gravies | 200 mg/kg | |
| 12.6.4 | Clear sauces (e.g., soy sauce, fish sauce) | 200 mg/kg | |
| 12.7 | Salads (e.g., macaroni salad, potato salad) and sandwich spreads excluding cocoa- and nut-based spreads of food categories 04.2.2.5 and 05.1.2 | 200 mg/kg | |
| 12.8 | Yeast and like products | 200 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 30 mg/kg | |
| 13.1 | Infant formulae and follow-on formulae | 10000 mg/kg | |
| 13.2 | Weaning foods for infants and growing children | 1000 mg/kg | |
| 13.3 | Dietetic foods intended for special medical purposes, including those for infants and young children | 1000 mg/kg | |
| 14.1.4 | Water-based flavoured drinks, including "sport" or "electrolyte" drinks and particulated drinks | 1000 mg/kg | Note 15 |
| 14.2.1 | Beer and malt beverages | 150 mg/kg | Note 96 |
| 14.2.3 | Wines | 150 mg/kg | Note 96 |
| 14.2.6.2 | Spirituous beverages containing less than 15% alcohol | 150 mg/kg | Note 96 |
| 15.1 | Snacks - potato, cereal, flour or starch based (from roots and tubers, pulses and legumes) | 200 mg/kg | |
| 15.2 | Processed nuts, including covered nuts and nut mixtures (with e.g., dried fruit) | 1500 mg/kg | |

## TRAGACANTH GUM

Tragacanth Gum INS: 413

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |

TRAGACANTH GUM

Function: Bulking Agent, Emulsifier, Stabilizer, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | GMP | |
| 02.1 | Fats and oils essentially free from water | 13000 mg/kg | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 2000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | GMP | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 500 mg/kg | |

## TRIPOTASSIUM CITRATE

Tripotassium Citrate I NS: 332ii

Function:: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.2 | Buttermilk (plain) | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |

TRIPOTASSIUM CITRATE

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | 3000 mg/kg | Note 109 |
| 14.2.3.4 | Aromatized wine | GMP | |

## TRISODIUM CITRATE

Trisodium Citrate INS: 331iii

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1 | Milk and buttermilk | GMP | |
| 01.2.1 | Fermented milks (plain) | 1500 mg/kg | Note 63 |
| 01.2.2 | Renneted milk | GMP | |
| 01.4.1 | Pasteurized cream | 2000 mg/kg | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | GMP | Note 52 |
| 04.1.1 | Fresh fruit | 2000 mg/kg | |
| 04.2.1 | Fresh vegetables, and nuts and seeds | 2000 mg/kg | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | 5000 mg/kg | |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |

TRISODIUM CITRATE

Function: Acidity Regulator, Antioxidant, Emulsifier, Sequestrant, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | 5000 mg/kg | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3.4 | Aromatized wine | GMP | |

## XANTHAN GUM

Xanthan Gum INS: 415

Function: Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.1.1.1 | Milk, including sterilized and UHT goats milk | GMP | |
| 01.1.1.2 | Buttermilk (plain) | 3000 mg/kg | |
| 01.2.1.1 | Fermented milks (plain), not heat-treated after fermentation | GMP | |
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | 5000 mg/kg | |
| 01.4.1 | Pasteurized cream | GMP | |
| 01.4.2 | Sterilized, UHT, whipping or whipped, and reduced fat creams | 5000 mg/kg | |
| 02.1 | Fats and oils essentially free from water | GMP | |
| 02.2.1.1 | Butter and concentrated butter | 5000 mg/kg | Note 52 |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | |
| 04.1.1.3 | Peeled or cut fresh fruit | GMP | |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | |
| 04.2.1.3 | Peeled, cut or shredded vegetables, and nuts and seeds | GMP | |
| 04.2.2.1 | Frozen vegetables | GMP | |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | 4000 mg/kg | Note 54 |
| 08.1 | Fresh meat, poultry, and game | GMP | |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | 5000 mg/kg | Note 61 |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 41 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4 | Cooked and/or fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 10.2.1 | Liquid egg products | GMP | |

XANTHAN GUM

Function: Thickener, Stabilizer

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 10.2.2 | Frozen egg products | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | 5000 mg/kg | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | 20000 mg/kg | |
| 14.1.2.1 | Canned or bottled (pasteurized) fruit juice | 5000 mg/kg | |
| 14.1.2.3 | Concentrate (liquid or solid) for fruit juice | GMP | |
| 14.1.3.1 | Canned or bottled (pasteurized) fruit nectar | 3000 mg/kg | |
| 14.1.3.3 | Concentrate (liquid or solid) for fruit nectar | GMP | |
| 14.1.5 | Coffee, coffee substitutes, tea, herbal infusions, and other hot cereal and grain beverages, excluding cocoa | GMP | |
| 14.2.3 | Wines | GMP | |

## XYLITOL

Xylitol INS: 967

Function: Bulking Agent, Emulsifier, Humectant, Stabilizer, Sweetener, Thickener

| Food Cat. No. | Food Category | Max Level | Comments |
|---|---|---|---|
| 01.2.1.2 | Fermented milks (plain), heat-treated after fermentation | GMP | |
| 01.2.2 | Renneted milk | GMP | |
| 04.1.1.2 | Surface-treated fresh fruit | GMP | Note 16 |
| 04.2.1.2 | Surface-treated fresh vegetables, and nuts and seeds | GMP | Note 16 |
| 06.4.2 | Pre-cooked or dried pastas and noodles and like products | GMP | Note 54 |
| 08.1.1 | Fresh meat, poultry, and game, whole pieces or cuts | GMP | Note 16 |
| 08.1.2 | Fresh meat, poultry, and game, comminuted | GMP | |
| 09.1 | Fresh fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.1 | Frozen fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.2 | Frozen battered fish, fish fillets, and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.3 | Frozen minced and creamed fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.4.1 | Cooked fish and fish products | GMP | |
| 09.2.4.2 | Cooked mollusks, crustaceans, and echinoderms | GMP | |
| 09.2.4.3 | Fried fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | Note 16 |
| 09.2.5 | Smoked, dried, fermented, and/or salted fish and fish products, including mollusks, crustaceans, and echinoderms | GMP | |
| 11.2 | Other sugars and syrups (e.g., brown sugar, maple syrup) | GMP | |
| 12.2 | Herbs, spices, seasonings (including salt substitutes), and condiments (e.g., seasoning for instant noodles) | GMP | Note 51 |
| 13.1 | Infant formulae and follow-on formulae | GMP | |
| 13.2 | Weaning foods for infants and growing children | GMP | |

# TABLE 4 LISTS OF FOOD ADDITIVES APPROVED ONLY FOR LIMITED NUMBER OF FOOD CATEGORIES

**ACETONE PEROXIDE**

Function: flour treatment

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.0 | Cereal flours | GMP |

**AMMONIUM PERSULPHATE**

Function: Flour treatment

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.2 | Flour | 250 PPM |

**AMMONIUM SALT OF PHOSPHATIDIC**

Function: Emulsifier

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.1 | Cocoa powder & mixture | 50 PPM |

**AMMONIUM SULFATE**

Function: Dough conditioner

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.2 | Flour | GMP |

**ALUMINUM SULFATE (AS SODIUM ALUMINUM SULFATE)**

Function: Flour treatment

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.2 | Flour | GMP |

**BROMINATED VEGETABLE OIL**

Function: Emulsifiers

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.0 | Beverages | 15 PPM |

**BUTADIENE STYRENE RUBBER**

Function: Misc. food additives

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.3 | Chewing gum base | GMP |

**CALCIUM BROMATE**

Function: Flour treatment

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.2 | Flour | 75 PPM |

**CALCIUM CASEINATE**

Function: Stabilizers & Thickeners

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 04.1.2 | Frozen Desserts | GMP |

**CALCIUM IODATE**

| Function: | Flour Treatment | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.2 | Flour | 45 PPM |

**CALCIUM LACTOBIONATE**

| Function: | Firming Agents | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 07.2 | Dry Pudding mixes | GMP |



**CALCIUM PEROXIDE**

| Function: | Flour treatment | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.2 | Flour | 100 PPM |

**CHLORINE / CHLORINE DIOXIDE**

| Function: | Flour Treatment | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.0 | Cereals Flour | GMP |

**CITRUS RED 2**

| Function: | Food colors | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 04.1 | Orange peel | 2 PPM |

**DILAURYL THIODIPROPIONATE**

| Function: | Antioxidants | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 02.0 | Fats and Oils | 0.02 % |

**ETHOXYLATED MONO AND DIGLYCERIDES**

| Function: | Emulsifiers | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.2 | In flour used | 0.2 - 0.5 % |



**ETHOXYNQUIN**

| Function: | Antioxidants | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 12.2 | Chili powder & Paprika | 100 PPM |

**FURCELLERAN & ITS AMMONIUM, CALCIUM, POTASSIUM**

| Function: | Stabilizers & Thickeners | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 01.7 | Ice Cream | GMP |

**GIBBERELLIC ACID (& ITS POTASSIUM SALT**

| Function: | Misc. food Additives | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 14.2.1<br>12.3 | Malt Beverages<br>And Vinegar | GMP |

**GLYCERYL (GLYCOL) MONOSTEARATE**

| Function: | Emulsifier | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.4 | Macaroni Products | 2 % |

**ISOBUTYLENE - ISOPRENE COPOLYMER**

| Function: | Misc. food additives | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 05.3 | Chewing gum base | GMP |

**LACTOSE**

| Function: | Nutritive Sweeteners | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 01.6 | Cheeses, Vanilla Powder | GMP |

**LACTYLIC STEARATE**

| Function: | Flour Treatment | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.2 | Flour | 5000 PPM |

**LANOLIN**

Function: Misc. food Additives

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.3 | As comp. of chewing gum base | GMP |

**LARCH GUM (ARABINOGALACTAN**

Function: Stabilizers & Thickeners

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 07.1 | Dressings & Pudding Mixes | GMP |

**MALTOSE**

Function: Nutritive Sweeteners

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 01.6 | Cheeses | GMP |

**NATURAL MASTICATORY**

Function: Misc. food Additives

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.3 | As comp. of chewing gum base | GMP |

**NEOTAME**

Function: Sweetener, Flavor Enhancer

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.1.4 | Water-based flavoured drinks | GMP |

**ORANGE B**

| Function: | Food Colors | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 08.4 | Sausage Casing | 150 PPM |

**PETROLATUM**

| Function: | Surface - Finishing Agent | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 07.1.3 | Bakery Products | 0.15 % |

**POLYETHYLENE GLYCOL**

| Function: | Surface - Finishing Agent | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 04.1.1 | Fresh fruits | GMP |

**POLYISOBUTYLENE**

| Function: | Misc. food Additives | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 05.3 | chewing gum base | GMP |

**POLYVINYL ACETATE**

| Function: | Misc. food Additives | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 05.3 | As comp. of chewing gum base | GMP |

**POTASSIUM PERSULPHATE**

Function: Flour Treatment

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.2 | Flour | 100 PPM |

**PURIFIED OXGALL OR SODIUM CHOEATE**

Function: Emulsifiers

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 01.6 | Cheese | 0.02 % |

**RICE BRAN WAX**

Function: Surface - Finishing Agent

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.3 | Chewing gum | 2.50 % |

**SODIUM ACID PYROPHOSPHATE**

Function: Leavening

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 06.0 | Cereal Flours | GMP |

**SODIUM CASEINATE**

Function: Stabilizers & Thickeners

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 04.1.2 | Frozen Desserts | GMP |

**STANNOUS CHLORIDE**

| Function: | Antioxidants | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 04.2 | Packed Asparagus | 25 PPM |

**STEARYL CITRATE**

| Function: | Sequestrants | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 02.2.1.2 | Margarine | 0.15 % |

**SUCCINYLATED MONOGLYCERIDES**

| Function: | Flour Treatment | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 06.2 | Flour | 500 PPM |

**SUCCISTEARIN (STEAROYL PROPYLENE GLYCOL HYDROGEN**

| Function: | Emulsifiers | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 02.1 | Shortenings & edible oils | GMP |

**SULFURIC ACID**

| Function: | PH - Control Agents | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 14.2<br>01.6 | Alcoholic Beverages<br>& Cheeses | 0.014 % & 0.0003 % |

**SUCROSE ACETATE ISOBUTYRATE (SAIB)**

Function: Cloudifier, stabilizer

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.0 | Beverage | 300 ppm Finished Beverage |

**TERPINE RESIN**

Function: Misc. food Additives

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.3 | As comp. of chewing gum base | GMP |

**THIDIPROPIONIC ACID**

Function: Antioxidants

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 02.0 | Fat and Oils | 0.02 % |

**TRANSGLUTAMINASE**

Function: Flavoring Substances/ Enhancer

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| | Monosodium Glutamate | GMP |

**TRICALCIUM SILICATE**

Function: Anti - Caking Agents

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 12.1 | Salt | 2 % |

**TRIETHYL CITRATE (ALSO AS ETHYL CITRATE)**

| Function: | Sequestrants | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 10.2.3 | Dried Egg White | 0.25 % |
| 05.0 | Confectionery | 0.20 % |
| 04.0 | Fruits & Vegetables | 0.02 % |

# TABLE 5 LISTS OF FOOD ADDITIVES APPROVED ONLY FOR USE AS FOOD PROCESSING

**ACETONE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | Solvent for Spice Oleoresins | 30 PPM |

**ACETYLATED MONOGLYCERIDES**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | Used in food processing | GMP |

**ACRYLATE-ACRLAMIDE RESIN**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 11.3 | In beet or Cane sugar production | 5 ppm of juice; 100 ppm of liquior |

**BENTONITE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | | GMP |

**BUTANE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | | GMP |

**CHLOROPENTAFLOUROETHANE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | As propellant & aerating Agent in food | GMP |



**DIATOMACEOUS EARTH**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | Animal feed | 2 % |

**DICHLORODIFLOUROMETHANE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 12.0 | As fumigant for ground spices | GMP |

**ETHYLENE DICHLORIDE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| | In production of | 30 PPM |

spice oleoresins

**HEXANE**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 12.0 | In spice & natural Extract | 25 PPM |

**HYDROGENATED SPERM OIL**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 07.1 | Baked products | GMP |

**ION-EXCHANGE MEMBRANES**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 04.1 | In production of Grape fruit juice | |

**ION-EXCHANGE RESINS**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |
| 14.1.1 | For purification of food And water | |

**METHYL ALCOHOL**

| Function: | Processing Aid | |
|---|---|---|
| Food Cat. No. | Food Category | Max. Use level |

| | | |
|---|---|---|
| 12.0 | In spice & natural extract | 50 PPM |

**METHYLENE CHLORIDE**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 12.0 | In spice & natural extract | 30 PPM |

**OCTAFLOUROCYCLOBUTANE**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| | Propellent for foods production | GMP |

**PETROLATUM**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| | In animal feeds | 3.00 % |

**POLYVINYLPOLYRROLIDONE**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.2 | Beverages (beer,wine) | 10PPM, 60PPM |
| 12.3 | & vinegar | 40 PPM |

**PROPANE**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| | Combustion product gas | GMP |

**TRICHLOROETHYLENE**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.1.5 | Decaffeinated ground coffee | 25 PPM |

**TRIFLOUROMETHANE SULFONIC ACID**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 05.1 | Cocoa butter substitute | 0.2 PPM |

**VEGETABLE CARBON ACTIVATED**

Function: Processing Aid

| Food Cat. No. | Food Category | Max. Use level |
|---|---|---|
| 14.1.1 | Food & water purification | |

**TABLE 6**

**LISTS OF MINERAL SALTS, AMINO ACIDS AND VITAMIN COMPOUNDS FOR USE IN FOODS**

| Salts | Purity Requirements | Food Category |
|---|---|---|
| **1. Source of Calcium (Ca)** | | |
| 1.1 Calcium carbonate | FCC, FAO/WHO | Milk substitute formulae; Infant cereals |
| 1.2 Calcium chloride | FCC, FAO/WHO | Milk-based and milk substitute formulae |
| 1.3 Calcium citrate | FCC, FAO/WHO | Milk-based, milk substitute, protein hydrolysate and meat-based formulae |
| 1.4 Calcium gluconate | FCC, FAO/WHO | Protein hydrolysate formulae |
| 1.5 Calcium glycerophosphate | FCC | |
| 1.6 Calcium lactate | FCC, FAO/WHO | Electrolyte mixture supplement |
| 1.7 Calcium phosphate, Monobasic | FCC, FAO/WHO | Milk substitute and low sodium Formulae |
| 1.8 Calcium phosphate, dibasic | FCC | Milk substitute and protein hydrolysate formulae |
| 1.9 Calcium phosphate, tribasic | FCC, FAO/WHO | Milk substitute, protein hydrolysate and premature formulae; infant cereals |
| 1.10 Calcium oxide | FCC, FAO/WHO | Protein supplement formulae |
| 1.11 Calcium Sulphate | FCC, FAO/WHO | Infant Cereals |
| | | |
| | | |
| **2. Source of Phosphorus (P)** | | |
| 2.1 Calcium phosphate, monobasic | FCC, FAO/WHO | Milk substitute and low sodium formulae |
| 2.2 Calcium phosphate, dibasic | FCC | Milk substitute and protein hydrolysate formulae |
| 2.3 Calcium phosphate, tribasic | FCC, FAO/WHO | Milk substitute, protein hydrolysate and premature formulae; infant cereals |

| Salts | Purity Requirements | Food Category |
|---|---|---|
| 2.4 Magnesium phosphate, dibasic | FCC | Milk substitute and lactose-free formulae |
| 2.5 Magnesium phosphate, Tribasic | FCC, FAO/WHO | |
| 2.6 Potassium phosphate, monobasic | FCC, FAO/WHO | Protein hydrolysate formulae |
| 2.7 Potassium phosphate, dibasic | FCC, FAO/WHO | Milk-based, milk substitute and protein hydrolysate formulae |
| 2.8 Sodium phosphate, dibasic | FCC, FAO/WHO | Electrolyte mixture supplement |
| 2.9 Phosphoric acid | FCC, FAO/WHO | All infant and follow-up formulae; (13.1) cereal-based foods for infants and children |
| **3. Source of Chloride (Cl)** | | |
| 3.1 Calcium chloride | FCC, FAO/WHO | Milk-based, milk substitute and protein supplement formulae; electrolyte mixture Supplement |
| 3.2 Choline chloride | FCC, FAO/WHO | Milk-based, milk substitute and protein hydrolysate formulae |
| 3.3 Magnesium chloride | FCC, FAO/WHO | Milk-based, milk substitute and lactose-free formulae |
| 3.4 Manganese chloride | FCC | Milk-based formulae |
| 3.5 Potassium chloride | FCC, FAO/WHO | |
| 3.6 Sodium chloride | FCC, FAO/WHO | Milk-substitute formulae, baby foods and electrolyte mixture supplement |
| 3.7 Sodium chloride, iodized | FCC | Milk substitute formulae |
| 3.8 Hydrochloric acid | FCC, FAO/WHO | All infant and follow-up formulae; (13.1) cereal-based foods for infants and children |
| **4. Iron (Fe)** | | |
| 4.1 Ferrous carbonate, stabilized | MI | |
| 4.2 Ferrous citrate | MI | Milk and soy-based liquid infant formulae |
| 4.3 Ferrous fumarate | FCC | Vitamins, iron supplement |
| 4.4 Ferrous gluconate | FCC, FAO/WHO | |

| | | |
|---|---|---|
| 4.5 Ferrous lactate | MI | Milk and soy-based liquid infant formulae |
| 4.6 Ferrous succinate | MI | |
| 4.7 Ferrous sulphate | FCC | Milk-based, milk substitute and protein hydrolysate formulae |
| 4.8 Ferric ammonium citrate | FAO/WHO | |
| 4.9 Ferric citrate | MI | Milk and soy-based liquid infant formulae,<br>not allowed in powdered formulae, cereals or<br>canned baby foods |
| 4.10 Ferric gluconate | MI | |
| 4.11Sodium ferric pyrophosphate | MI | |
| 4.12 Hydrogen reduced iron | FCC | Infant cereals; protein supplement formulae |
| 4.13 Electrolytic iron | FCC | Infant cereals |
| 4.14 Carbonyl iron | MI | |
| 4.15 Ferric pyrophosphate | FCC | Milk-based formulae |
| 4.16 Iron Elemental | | |
| 4.17 Iron Choline Citrate Complex | | |
| **5. Source of Magnesium (Mg)** | | |
| 5.1 Magnesium carbonate | FCC, FAO/WHO | Baked products |
| 5.2 Magnesium chloride | FCC, FAO/WHO | Milk-based, milk substitute and lactose-free formulae |
| 5.3 Magnesium Lactate | FCC | |
| 5.4 Magnesium oxide | FCC, FAO/WHO | Milk substitute, protein hydrolysate and premature formulae |
| 5.5 Magnesium phosphate, dibasic | FCC | Milk substitute, lactose-free formulae |
| 5.6 Magnesium phosphate, Tribasic | FCC, FAO/WHO | |
| 5.7 Magnesium sulphate | FCC | Electrolyte mixture supplement |

| | | |
|---|---|---|
| **6. Source of Sodium (Na)** | | |
| 6.1 Sodium bicarbonate | FCC, FAO/WHO | Milk-based formulae, gazed products |
| 6.2 Sodium carbonate | FCC, FAO/WHO | Protein hydrolysate formulae |
| 6.3 Sodium chloride | FCC, FAO/WHO | Milk substitute formulae, baby foods, electrolyte mixture supplement |
| 6.4 Sodium chloride, iodized | FCC | Milk substitute formulae |
| 6.5 Sodium citrate | FCC, FAO/WHO | Milk-based, milk substitute and protein hydrolysate formulae, electrolyte mixture Supplement |
| 6.6 Sodium gluconate | FCC | |
| 6.7 Sodium lactate | FAO/WHO | |
| 6.8 Sodium Pantothenate | | |
| 6.9 Sodium phosphate, monobasic | FCC, FAO/WHO | Milk substitute formulae |
| 6.10 Sodium phosphate, dibasic | FCC, FAO/WHO | Electrolyte mixture supplement |
| 6.11 Sodium phosphate, tribasic | FCC, FAO/WHO | |
| 6.12 Sodium sulphate | FCC | |
| 6.13 Sodium tartrate | FCC, FAO/WHO | |
| **7. Source of Potassium (K)** | | |
| 7.1 Potassium bicarbonate | FCC, FAO/WHO | |
| 7.2 Potassium carbonate | FCC, FAO/WHO | |
| 7.3 Potassium chloride | FCC, FAO/WHO | |
| 7.4 Potassium citrate | FCC, FAO/WHO | |
| 7.5 Potassium glycerophosphate | FCC | |
| 7.6 Potassium gluconate | MI | |
| 7.7 Potassium phosphate, monobasic | FCC, FAO/WHO | Protein hydrolysate formulae |
| 7.8 Potassium phosphate, dibasic | FCC, FAO/WHO | Milk-based, milk substitute and protein hydrolysate formulae |

| | | |
|---|---|---|
| **8. Source of Copper (Cu)** | | |
| 8.1 Copper gluconate | FCC | 0.005 % |
| 8.2 Cupric carbonate | MI | Baked products, protein supplement formulae |
| 8.3 Cupric citrate | MI | Milk-based, protein hydrolysate and meat |
| | | Based formulae |
| 8.4 Cupric sulphate | MI | |
| **9. Source of Iodine (I)** | | |
| 9.1 Potassium iodide | FCC | Milk-based, milk substitute, meat-based formulae |
| 9.2 Sodium iodide | FCC | Milk-based, milk substitute and protein hydrolysate formulae |
| 9.3 Potassium iodide | FCC, FAO/WHO | Milk-based, milk substitute and protein hydrolysate formulae<br>0.01 mg in salt<br>0.045 mg l / day for infants<br>0.105 mg l / day for children below 4 years old<br>0.225 mg l / day for adults and<br>0.30 mg l / day for pregnant or lactating women |
| 9.4 Copper iodide | | 0.01 % in table salt |
| **10.Source of Zinc (Zn)** | | |
| 10.1 Zinc acetate | MI | |
| 10.2 Zinc chloride | MI | |
| 10.3 Zinc gluconate | | |
| 10.4 Zinc Methionine Sulfate | | |
| 10.5 Zinc oxide | MI | Protein hydrolysate formulae |
| 10.6 Zinc Stearate | | |
| 10.7 Zinc sulphate | FCC | Milk-based, milk substitute and protein hydrolysate formulae |

| | | |
|---|---|---|
| **11.Source of Manganese (Mn)** | | |
| 11.1 Manganese carbonate | MI | |
| 11.2 Manganese chloride | FCC | Milk-based formulae |
| 11.3 Manganese citrate | MI | |
| 11.4 Manganese Gluconate | FCC | |
| 11.5 Manganese Glycerophosphate | FCC | |
| 11.6 Manganous Oxide | | |
| 11.7 Manganese sulphate | FCC | Milk-based, milk substitute and protein hydrolysate formulae |
| **12. Others** | | |
| 12.1 Aluminum Nicotinate | | |
| 12.2 Bakers Yeast Protein | | |
| 12.3 Dehexanoic Acid | | |
| 12.4 DL–Methionine | | |
| 12.5 D–Pantothenamide | | |
| 12.6 D–Pantothenyl Alcohol | | |
| 12.7 Fish Protein Concentrate | | |
| 12.8 L-Alanine | | |
| 12.9 L-Alginine | | |
| 12.10 L-Asparagine | | |
| 12.11 Aspartic Acid | | |
| 12.12 L-Cystin | | |
| 12.13 L-Glutamic Acid | | |
| 12.14 L-Histidine | | |
| 12.15 Linoleic Acid | | |
| 12.16 L-Isoleucine/Leucine | | |
| 12.17 L-Lysine | | |
| 12.18 L-Methionine | | |
| 12.19 L-Phenylalanine | | |

| | | |
|---|---|---|
| 12.20 L-Proline | | |
| 12.21 L-Serine | | |
| 12.22 L-Threonine | | |
| 12.23 L-Tryptophan | | |
| 12.24 L-Tyrosine | | |
| 12.25 L-Valine | | |
| 12.26 N-Acetyl-L-Methionine | FAO/WHO, MI | |
| 12.27 Niacinamide | FAO/WHO, MI | |
| 12.28 Niacinamide Ascorbate | FAO/WHO, MI | |
| 12.29 Selenium | FAO/WHO, MI | |
| 12.30 Taurine | FAO/WHO, MI | |
| 12.31 Nicotinamide | AO | |

**Abbreviations:**

FAO/WHO = General Principles for the Use of Food Additives, Codex Alimentarius Volume 1.
FCC = Food Chemicals Codex
MI = Merck Index.

**ADVISORY LIST OF VITAMIN COMPOUNDS FOR USE IN FOODS FOR INFANTS, CHILDREN , AND ADULTS**

| Vitamin | Vitamin Form | Purity Requirements |
|---|---|---|
| 1. Vitamin A | Retinyl acetate<br>Retinyl palmitate<br>Retinyl propionate | USP, BP, Ph. Eur., FCC<br>USP, BP, Ph. Eur., FCC<br>USP, BP, Ph. Eur., FCC |
| 2. Provitamin A | Beta-carotene | FAO/WHO, FCC |
| 3. Vitamin D<br>3.1Vitamin $D_2$<br>3.2Vitamin $D_3$ | <br>Ergocalciferol<br>Cholecalciferol<br>Cholecalciferol-cholesterol | <br>USP, BP, Ph. Eur., FCC<br>USP, FCC<br>DAB |
| | | |

| | | |
|---|---|---|
| 4. Vitamin E | d-alpha-tocopherol dl-alpha-tocopherol d-alpha-tocopheryl acetate dl-alpha-tocopheryl acetate<br><br>d-alpha-tocopheryl succinate dl-alpha-tocopheryl succinate | NF, FAO/WHO NF, FAO/WHO, FCC NF, FCC NF, FCC<br><br>FCC NF |
| 5. Thiamin (Vitamin $B_1$) | Thiamin chloride hydrochloride<br>Thiamin mononitrate | USP, BP, Ph. Eur., FCC<br>USP, FCC |
| 6. Riboflavin (Vitamin $B_2$) | Riboflavin<br><br>Riboflavin 5'-phosphate sodium | USP, BP, Ph. Eur., FAO/WHO, FCC<br>BPC, FCC |
| 7. Niacin | Nicotinamide<br>Nicotinic acid | USP, BP, Ph. Eur., FCC<br>NF, BP, Ph. Eur., FCC |
| 8 Vitamin $B_6$ | Pyridoxine hydrochloride | USP, BP, Ph. Eur., FCC |
| 9. Biotin (Vitamin H) | d-biotin | FCC |
| 10. Folacin | Folic acid | USP, BP |
| 11. Pantothenic acid | Calcium pantothenate<br>Panthenol | USP, Ph. Eur., FCC<br>FCC |
| 12. Vitamin $B_{12}$ | Cyanocobalamin<br>Hydroxocobalamin | USP, BP, Ph. Eur.<br>NF, BP |
| 13. Vitamin $K_1$ | Phytylmenaquinone | USP, BP |
| 14. Vitamin C | Ascorbic acid<br><br>Sodium ascorbate Calcium ascorbate<br>Ascorbyl-6-palmitate | USP, BP, Ph. Eur., FAO/WHO, FCC USP, FAO/WHO, FCC FCC<br><br>NF, FAO/WHO, FCC |
| 15. Choline | Choline bitartrate<br>Choline chloride | DAB, FCC<br>FAO/WHO, DAB, FCC |
| 16. Inositol | | FCC |
| 17. Kelp | | FCC |

## SPECIAL VITAMIN FORMS

For reasons of stability and easier handling, some vitamins have to be converted into suitable preparations,
e.g. stabilized oily solutions, gelatine coated products, fat embedded preparations. For this purpose, the edible materials and the additives included in the respective Codex standard may be used:

| | | **Maximum Level in Ready-to-use Food** |
|---|---|---|
| (a) | Dextrins | 100 mg/kg |
| (b) | Modified starches as included in the Supplementary List to Section 5.1, Codex Alimentarius Volume 1 | 100 mg/kg |
| (c) | Gum arabic (gum acacia) | 100 mg/kg |
| (d) | Silicon dioxide | 10 mg/kg |

**Abbreviations:**

USP = United States Pharmacopoeia NF = United States National Formulary BP = British Pharmacopoeia, including addenda BPC = British Pharmaceutical Codex Ph. Eur. = European Pharmacopoeia FAO/WHO = General Principles for the Use of Food Additives, Codex Alimentarius Volume 1 DAB = Deutsches Arzneibuch 7 FCC = Food Chemicals Codex

**TABLE 7 ENZYMES PERMITTED FOR USE IN FOOD IN GENERAL IN ACCORDANCE WITH GOOD MANUFACTURING PRACTICE**

**ALPHA-ACETOLACTATE DECARBOXYLASE FROM BACILLUS BREVID EXPRESSED IN BACILLUS SUBTILIS**

**ALPHA-AMYLASE (BACILLUS LICHENFORMS)**

**ALPHA-AMYLASE AND GLUCOAMYLASE FROM ASPERGILLUS ORYZAE, VAR.**

**ALPHA-AMYLASE ENZYME PREPARATION FROM BACILLUS STEAROTHERMOPHILUS**

**ALPHA-AMYLASE FROM ASPERGILLUS ORYZAE, VAR.**

**ALPHA-AMYLASE FROM BACILLUS MEGATERIUM EXPRESSED IN BACILLUS SUBTILIS**

**ALPHA-AMYLASE FROM BACILLUS STEAROTHERMOPHILUS**

**ALPHA-AMYLASE FROM BACILLUS STEAROTHERMOPHILUS EXPRESSED IN BACILLUS SUBTILIS**

**ALPHA-AMYLASE FROM BACILLUS SUBTILIS**

**AMYLASE FROM ASPERGILLUS FLAVUS**

**AMYLOGLUCOSIDASE FROM ASPERGILLUS NIGER, VAR.**

**BETA-GLUCANASE FROM ASPERGILLUS NIGER, VAR.**

**BETA-GLUCANASE FROM TRICHODERMA HARZIANUM**

**BROMELAIN**

**CARBOHYDRASE FROM ASPERGILLUS AWAMORI, VAR.**

**CARBOHYDRASE FROM ASPERGILLUS NIGER, VAR.**

**CARBOHYDRASE FROM BACILLUS AMYLOLIQUEFACIENS**

**CARBOHYDRASE FROM BACILLUS LICHENIFORMIS**

**CARBOHYDRASE FROM BACILLUS SUBTILIS**

**CARBOHYDRASE FROM RHIZOPUS ORYZAE, VAR.**

**CARBOHYDRASE FROM SACCHAROMYCES SPECIES**

**CARBOHYDRASE/PROTEINASE PREPARATION, BACILLUS LICHENIFORMIS**

**CATALASE FROM ASPERGILLUS NIGER**

**CATALASE FROM BOVINE LIVER**

**CATALASE FROM MICROCOCCUS LYSODEICTICUS**

**CATALASE FROM PENICILLIUM NOTATUM**

**CELLULASE FROM PENICILLIUM FUNICULOSUM**

**CELLULASE FROM TRICHODERMA LONGIBRACHIATUM**

**CHYMOSIN A FROM ESCHERICHIA COLI K-12 CONTAINING THE PROCHYMOSIN A GENE**

**CHYMOSIN B FROM ASPERGILLUS NIGER VAR. AWAMORI CONTAINING THE PROCHYMOSIN B GENE**

**CHYMOSIN B FROM KLUYVEROMYCES LACTIS CONTAINING THE PROCHYMOSIN B GENE**

**CHYMOSIN PREPARATION, ASPERGILLUS NIGER VAR. AWAMORI**

**CHYMOSIN PREPARATION, ESCHERICHIA COLI K-12**

**CHYMOSIN PREPARATION, KLUYVEROMYCES MARXIANUS VAR. LACTIS**

**ENZYMES, BACTERIAL**

**ENZYMES, PROTEOLYTIC**

**ENZYME, FICIN**

**GLUCOSE OXIDASE AND CATALASE FROM ASPERGILLUS NIGER**

**GLUCOSE ISOMERASE FROM ACTINOPLANES MISSOURIENSIS**

**GLUCOSE ISOMERASE FROM BACILLUS COAGULANS**

**GLUCOSE ISOMERASE FROM STREPTOMYCES OLIVACEUS**

**GLUCOSE ISOMERASE FROM STREPTOMYCES OLIVOCHROMOGEN**

**GLUCOSE ISOMERASE FROM STREPTOMYCES RUBIGINOSUS**

**GLUCOSE ISOMERASE FROM STREPTOMYCES VIOLACEONIGER**

**HEMICELLULASE FROM ASPERGILLUS NIGER, VAR.**

**INVERTASE FROM SACCHAROMYCES CEREVISIAE**

**LIPASE (ANIMAL SOURCES)**

**LIPASE (ASPERGILLUS ORYZAE, VAR.)**

**LIPASE FROM ANIMAL TISSUE**

**LIPASE FROM ASPERGILLUS NIGER**

**LIPASE FROM ASPERGILLUS ORYZAE**

**LIPASE FROM RHIZOPUS NIVEUS**

**MALTOGENIC AMYLASE FROM BACILLUS STEAROTHERMOPHILUS EXPRESSED IN BACILLUS SUBTILIS**

**MIXED MICROBIAL CARBOHYDRASE AND PROTEASE FROM BACILLUS SUBTILIS, VAR.**

**PAPAIN (CARICA PAPAYA L.)**

**PECTINASE FROM ASPERGILLUS NIGER, VAR.**

**PECTINASE FROM BACILLUS SUBTILIS**

**PEPSIN FROM HOG STOMACH**

**PROTEASE FROM ASPERGILLUS ORYZAE, VAR.**

**PROTEASE FROM STREPTOMYCES FRADIAE**

**PROTEASES**

**PULLULANASE FROM KLEBSIELLA AEROGENES**

**RENNET**

**RENNET BOVINE**

**RENNET FROM BACILLUS CEREUS**

**RENNET FROM ENDOTHIA PARASITICA**

**RENNET FROM RHIZOMUCOR SPECIES**

**TRANSGLUTAMINASE**

**TRYPSIN**

## TABLE 8 Comments to the NOTES found in Table 3

**Note 1:** As adipic acid
**Note 2:** On dry ingredient, dry weight, dry mix or concentrate basis.
**Note 3:** Surface treatment.
**Note 4:** For decoration, stamping, marking or branding the product.
**Note 5:** Used in raw materials for manufacture of the finished food.
**Note 6:** As aluminium.
**Note 7:** Use level not in finished food.
**Note 8:** As bixin.
**Note 9:** As total bixin or norbixin.
**Note 10:** As ascorbyl stearate.
**Note 11:** Flour basis.
**Note 12:** Carryover from flavouring substances.
**Note 13:** As benzoic acid.
**Note 14:** NOT USED.
**Note 15:** Fat or oil basis.
**Note 16:** For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.
**Note 17:** As cyclamic acid.
**Note 18:** Added level; residue not detected in ready-to-eat food.
**Note 19:** Used in cocoa fat; use level on ready-to-eat basis.
**Note 20:** On total amount of stabilizers, thickeners and/or gums.
**Note 21:** As anhydrous calcium disodium EDTA.
**Note 22:** For use in smoked fish products only.
**Note 23:** As iron.
**Note 24:** As anhydrous sodium ferrocyanide.
**Note 25:** As formic acid.
**Note 26:** For use in baking powder only.
**Note 27:** As p-hydroxybenzoic acid.
**Note 28:** ADI conversion: if a typical preparation contains 0.025 µg/U, then the ADI of 33,000 U/kg bw becomes:
[(33000 U/kg bw) x (0.025 µg/U) x (1 mg/1000 µg)] = 0.825 mg/kg bw
**Note 29:** Reporting basis not specified.
**Note 30:** As residual $NO_3$ ion.
**Note 31:** Of the mash used.
**Note 32:** As residual $NO_2$ ion.
**Note 33:** As phosphorus.
**Note 34:** Anhydrous basis.
**Note 35:** Level in cocoa nibs.
**Note 36:** Residual level.
**Note 37:** As weight of nonfat milk solids.
**Note 38:** Level in creaming mixture.
**Note 39:** Only when product contains butter or other fats and oils.
**Note 40:** Use in packing medium only.

**Note 41:** Use in breading or batter coatings only.
**Note 42:** As sorbic acid
**Note 43:** As tin.
**Note 44:** As residual $SO_2$.
**Note 45:** As tartaric acid.
**Note 46:** As thiodipropionic acid.
**Note 47:** On egg yolk weight, dry basis.
**Note 48:** For olives only.
**Note 49:** For use on citrus fruits only.
**Note 50:** For use in fish roe only.
**Note 51:** For use in herbs and salt substitutes only.
**Note 52:** For use in butter only.
**Note 53:** For use in coatings only.
**Note 54:** For use in dried products only.
**Note 55:** Added level.
**Note 56:** Provided starch is not present.
**Note 57:** GMP is 1 part benzoyl peroxide and not more than 6 parts of the subject additive by weight.
**Note 58:** As calcium.
**Note 59:** Use as packing gas.
**Note 60:** If used as a carbonating agent, the $CO_2$ in the finished wine shall not exceed 39.2 mg/kg.

**Note 61:** For use in minced fish only.
**Note 62:** As copper.
**Note 63:** On amount of dairy ingredients.
**Note 64:** Level added to dry beans; 200 mg/kg in ready-to-eat food, anhydrous basis.
**Note 65:** Carryover from nutrient preparations.
**Note 66:** As formaldehyde. For use in provolone cheese only.
**Note 67:** Carryover from use in casings.
**Note 68:** For use in natural mineral waters only.
**Note 69:** Use as carbonating agent.
**Note 70:** As the acid.
**Note 71:** Calcium, potassium and sodium salts only.
**Note 72:** Ready-to-eat basis.
**Note 73:** Except whole fish.
**Note 74:** Use level for deep orange coloured cheeses; 25 mg/kg for orange coloured cheeses; 10 mg/kg for normal coloured cheeses.
**Note 75:** Use in milk powder for vending machines only.
**Note 76:** Use in potatoes only.
**Note 77:** As mono-isopropyl citrate.
**Note 78:** For use in tocino (fresh, cured sausage) only.
**Note 79:** For use on nuts only.
**Note 80:** Equivalent to 2 mg/dm$^2$ surface application to a maximum depth of 5 mm.

**Note 81:** Equivalent to 1 mg/dm$^2$ surface application to a maximum depth of 5 mm.
**Note 82:** For use in shrimp; 6000 mg/kg for Crangon crangon and Crangon vulgaris.
**Note 83:** Excluding foods for infants and young children.
**Note 84:** Use in alcohol-free beer only.
**Note 85:** Except for use in coolers at 1000 mg/kg.
**Note 86:** Use in whipped dessert toppings other than cream only.
**Note 87:** Treatment level.
**Note 88:** Carryover from the ingredient.
**Note 89:** Except for use in dried tangle (KONBU) at 150 mg/kg.

**Note 90:** For use in milk-sucrose mixtures used in the finished product.
**Note 91:** By weight of defoamer.
**Note 92:** On the weight of the protein before re-hydration.
**Note 93:** Except natural wine produced from Vitis Vinifera grapes.
**Note 94:** For use in loganiza (fresh, uncured sausage) only.
**Note 95:** For use in surimi and fish roe products only.
**Note 96:** For use in cooler-type products only.
**Note 97:** For use as a protective float on brine for curing pickles.
**Note 98:** For dust control.
**Note 99:** For use as a float on fermentation fluid to prevent contamination.
**Note 100:** For use as a dispersing agent in dill oil used in the final food.

**Note 101:** Level based on the maximum recommended daily dose of 475 mg/dose, assuming one 600 mg tablet is consumed per day.
**Note 102:** For use as a surfactant or wetting agent for colours in the food.
**Note 103:** Except for use in special white wines at 400 mg/kg.
**Note 104:** Maximum 5000 mg/kg residue in bread and yeast-leavened bakery products.
**Note 105:** Except for use in dried gourd strips (KAMPYO) at 5000 mg/kg.
**Note 106:** Except for use in Dijon mustard at 500 mg/kg.
**Note 107:** Except for use in concentrated grape juice for home wine making at 2000 mg/kg.
**Note 108:** For use on coffee beans only.
**Note 109:** Use level reported as 25 lbs/1000 gal x (0.45 kg/lb) x (1 gal/3.75 L) x (1 L/kg) x ($10^6$ mg/kg) = 3000 mg/kg
**Note 110:** For use in frozen French fried potatoes only.
**Note 111:** For use in dipping solution only.

**Table 9. Food Additives Functional Classes and Sub-classes**

| Functional Classes for LABELLING | Definition | Sub-classes For TECHNOLOGICAL USE |
|---|---|---|
| **Acidity Regulator** | A food additive, which controls the acidity or alkalinity of a food | acidity regulator, acid, acidifier, alkali, base, buffer, buffering agent, pH adjusting agent |
| **Anticaking Agent** | A food additive, which reduces the tendency of components of food to adhere to one another | anticaking agent, anti stick agent, drying agent, dusting agent |
| **Antifoaming Agent** | A food additive, which prevents or reduces foaming | antifoaming agent, defoaming agent |
| **Antioxidant** | A food additive, which prolongs the shelf-life of foods by protecting against deterioration caused by oxidation | antioxidant, antioxidant synergist, antibrowning agent |
| **Bleaching Agent** | A food additive (non flour use) used to decolorize food. Bleaching agents do not include pigments | bleaching agent |
| **Bulking Agent** | A food additive, which contributes to the bulk of a food without contributing significantly to its available energy value | bulking agent, filler |
| **Carbonating Agent** | A food additive used to provide carbonation in a food | carbonating agent |

| Functional Classes for LABELLING | Definition | Sub-classes For TECHNOLOGICAL USE |
|---|---|---|
| **Color** | A food additive , which adds or restores color in a food | color, decorative pigment, surface colorant |
| **Color Retention Agent** | A food additive , which stabilizes, retains or intensifies the color of a food | color retention agent, color fixatives, color stabilizers, color adjunct |
| **Emulsifier** | A food additive, which forms or maintains a uniform emulsion of two or more phrases in a food | dispersing agents, emulsifier, plasticizers, surface active agent, crystallization inhibitor, density adjustment (flavoring oils in beverages), suspension agent, clouding agent |
| **Emulsifying Salt** | A food additive, which in the manufacture of processed food, rearranges proteins in order to prevent fat separation | melding salt, emulsifying salt |
| **Firming Agent** | A food additive, which make or keeps tissues of fruit or vegetables firm and crisp, or interacts with gelling agents to produce or strengthen a gel | firming agent |
| **Flavor Enhancer** | A food additive, which enhances the existing taste and/or odor of a food | flavor enhancer, flavor synergist |
| **Flour Treatment Agent** | A food additive, which is added to flour or dough to improve its baking quality or color | flour treatment agent, flour bleaching agent, flour improver, dough conditioner, dough strengthening agent |
| **Foaming Agent** | A food additive, which make it possible to form or maintain a uniform dispersion of a gaseous phase in a liquid or solid food | foaming agent, whipping agent, aerating agent |
| **Gelling Agent** | A food additive, which gives a food texture through formation of gel | gelling agent |
| **Glazing Agent** | A food additive, which when applied to the external surface of a food, imparts a shiny appearance or provides a protective coating | glazing agent, sealing agent, coating agent, surface-finishing agent, polishing agent, film-foaming agent |

| Functional Classes for LABELLING | Definition | Sub-classes For TECHNOLOGICAL USE |
|---|---|---|
| **Humectant** | A food additive, which prevents food from drying out by counteracting the effect of a dry atmosphere | humectant, moisture-retention agent, wetting agent |
| **Preservative** | A food additive, which prolongs the shelf-life of a food by protecting against deterioration caused by microorganisms | preservative, antimicrobial preservative, antimycotic agent, bacteriophage control agent, fungistatic agent, antimold and antirope agent, antimicrobial synergist |
| **Propellant** | Food additive gas, which expels a food from a container | propellant |
| **Raising Agent** | A food additive or a combination of food additives, which liberate(s) gas and thereby increase(s) the volume of a dough or batter | raising agent |
| **Sequestrant** | A food additive, which controls the availability of a cation | sequestrant |
| **Stabilizer** | A food additive, which makes it possible to maintain a uniform dispersion of two or more components | stabilizer, foam stabilizer, colloidal stabilizer, emulsion stabilizer |
| **Sweetener** | A food additive (other than mono-or disaccharide sugar), which imparts a sweet taste to a food | sweetener, intense sweetener, bulk sweetener |
| **Thickener** | A food additive, which increases the viscosity of a food | thickener, body agent, binder, texturizing agent |