

Administrative Order No. 88-A s.1984

#### Subject Regulatory Guidelines Concerning Food Additives

This regulation prescribes the guidelines on the use of food additives in all foodstuffs sold in the Philippines whether manufactured or imported.

#### 1. Definition of Terms

<u>Food Additive</u> refer to any substance not normally consumed as food by itself and not normally used as typical ingredient of the food, whether or not it has nutritive value, the international addition of which for food technological (including organoleptic) purpose in the manufacture. Processing, preparation treatment, packaging, transport or result (directly or indirectly) in its or its by products becoming a component of (or otherwise affecting the characteristics of) such food.

<u>Processing Aids</u> are additives that are used in the processing of food to achieve a specified technological purpose and which may or may not result in the presence of residues or derivatives in the final product.

Flavoring Substances refer to flavor preparations composed of substances derived from plant/animal products and/ or chemically synthesized substances whose significant function in food flavoring rather than nutritional.

#### 2. List of Permissible Food Additives

- 2.1. A list permissible food additives, duly approved by the Minister of Health upon the recommendations of the Bureau of Food and Drugs, shall be the official reference for additives that are allowed for use in food products. Foodstuffs containing additives not found in the list shall be considered illegal and their local distribution shall not be permitted.
- 2.2. The additives are listed in separate labels according to their functional categories.
- 2.3. Every food additive included in the list shall meet the specification for identity and the purify set for that particular substance in any of the latest edition of the following publication;
  - a. U.S Code of Federal Regulations
  - b. Food Chemical Codes
  - c. JECFA Specifications ( published in FAO Food and Nutrition Paper)
- 2.4. The use of additives shall be in accordance with the specified restrictions, e.g. the type of food where the substance may be added and or the quantitative limitations prescribe thereto. Whenever GMP is indicated it means that the additives in question are self limiting in food for technological organoleptic or other reasons and that, thereto, the additives need not be subject to maximum limits but must be used according to good manufacturing practice.
- 2.5. The list of permissible additives shall be subject to periodic review and the use of any substance may later be banned when circumstances render such action necessary.

#### 3 Requirements For Approval Of Other Additive

- 3.1 Any person for entity who wishes to use a food additive that is not included in the approved list may file with the Minister of Health through the Bureau of Food and Drugs, a petition proposing the approval of such additive.
- 3.2 Petitions shall be accompanied by pertinent information concerning the food additive including, but not limited to the following:
  - a) The chemical identity and composition of the additive, its physical, chemical and biological properties, and specifications for its purity;
  - A description of the method of manufacture and a list of substance used in the synthesis, extraction or another method of preparation;
  - The amount of the food additive proposed for use and the purpose for which it is proposed, together with the directions and recommendations regarding the proposed use;
  - d) Data establishing that the food additive will have intended physical or other technical effect or that it may reasonably be expected to become a component, or to affect the characteristics directly or indirectly of food and the amount necessary to accomplish this;
  - e) Assay method (s) for determining the amount of the food additive in the raw, processed and/or finished food and of any substance formed in or on such Food because of its use;
  - f) Proposed tolerance or maximum level of use, if required to ensure its safety;
  - g) Full reports of investigation made with respect to the safety of the additives, including information as to the methods and controls used in conducing such investigations;
  - h) Or in lieu of clause (g) official documents from the country of origin containing the standard procedure adopted in evaluating the safety of food additives and a certification from the Health Authorities in that country indicating the present status of the additive and these documents shall be duly authenticated by the Phil Consulate; and
  - i) A sample of the food additive and a sample of food containing the additive.
- 3.3 The Bureau of Food and Drugs shall, within ninety days after filling of a petition, notify the person or entity concerned whether or not the food additive in question shall be recommended for the approval of the Minister of Health

This regulation shall take effect immediately upon approval and publication in the Official Gazette

Recommending Approval

(SGD) CATALINA C. SANCHEZ Director

APPROVED:

(SGD) J.C. AZURIN Minister of Health Although substances found in the list are classified into specific functional categories, some of them are multi functional, example citric acid is usually to food as an acidulate but it can also be used as a sequestrant. Furthermore some additives listed in Group I may be used as processing aids.

The maximum levels of use in a particular type of food or in food products in general, are specified for some additives. The term GMP signifies the use of the least amount of the additive that is reasonably necessary to accomplish the intended effect.

Additives may be used in any food where applicable except when otherwise indicated in this list or when a food Standards precludes such in a particular food product.

The use of a combination of two or more substances to produce the same technological effect in any food shall be allowed only in the following condition: The quantity of each substance present in the food shall be expressed as percent based on the maximum permitted level for that substances, shall not exceed one hundred.

Specific regulatory guidelines pertaining to certain additives are stated in appropriate sections:

Annexed hereto are Recommended Levels of Use of some additives in certain food products.

#### LIST OF PERMISSABLE FOOD ADDITIVES

## Explanatory Notes:

The substances listed hereto are those that have been approved for use in foodstuffs. These food additives are divided into three major groups

Group 1. Substances that are directly added to food and classified into the following functional categories:

Anticaking Agents

Antimicrobial agents

Antioxidants

Antioxidant Synergists

Emulsifiers

Firming Agents

Flavor Enhancers

Flour Treatment Agents Dough Conditioners

Food Acidulant

Food Colors

Humectants

Leavening Agents

Nutrient Supplements

Ph - Control Agents

Sequestrants

Stabilizers and Thickeners

Surface- Finishing Agents

Sweeteners

Non-Nutritive Sweeteners

Nutritive Sweeteners

Miscellaneous

Group II - Substances that are considered as Processing Aids and classified into:

Antifoaming Agents

Clarifying Agents

Catalyst

Contact Freezing Agents

Extraction/Carrier Solvents

Fat Crystal Modifier

Filtration Aids

Flocculating Agents

Lubricants, Anti Stick Agents and Molding Aids

Propellant and Packaging Cases

Enzyme Preparations

GROUP III Flavoring Substances (\* to be elaborated)

#### ANTI-CAKING AGENTS

Substances added to finely powdered or crystalline food products to prevent caking, lumping or agglomentation.

#### Restriction/Maximum Level of Use

Aluminum Calcium Silicate (calcium aluminum silicate)	2 % in salt; GMP
Calcium phosphate, tribasic	2% in salt; GMP
Calcium Silicate	2% in salt, 5% in baking powder GMP
Iron ammonium citrate	25 % ppm in salt
Magnesium carbonate	2 % in salt, GMP
Magnesium silicate	2 % in salt, GMP
Myristates, palmitates, stearates of aluminum,	GMP
calcium, magnesium potassium and sodium	2.01
Silicon dioxide	2 %
Sodium aluminum silicate	2 %
(sodium silica aluminate)	
Sodium calcium alumeno silicate	2 %
Sodium ferrocyanide ( Yellow of Soda)	13 ppm in salt (calculated as anhydrous sodium ferrocvanide)
Tricalcium silicate	2 % in salt

<sup>\*</sup>Refer to Annex 1 for Recommended levels in certain food products.

## **ANTIOXIDANTS**

Substances used to preserve food by retarding deterioration, rancidity or discoloration due to oxidation.

Ascorbic Acid Ascorbyl palmitate Butylated hydroxyanisole Butylated hydroxyanisole Calcium ascorbate Dilauryl thiodipropropionate Erythorbic acid	Restriction/Maximum Level of Use  GMP  GMP  0.02 %*  0.02 %*  GMP  0.02 %*  GMP  0.02 %*
Ethoxynguin	100 ppm for color preservation of chili powder
to the control of the	and paprika
Lecithin	GMP
Propylgallate	0.02 %*
Sodium Ascorbate	GMP
Sodium erythorbate	GMP
Stannous chloride	11-20 ppm calculated as tin*
Thidipropionic acid	0.02 %*
Tertiary butyl hydroquinone (TBHQ)	0.02 %*
Alpha-tocopherol	GMP
Tocopherol (mixed concentrate)	GMP

<sup>\*</sup>Refer to Annex I for Recommended levels in certain food products.

## ANTIMICROBAL AGENTS

Substances used to preserve food by preventing growth of microorganism and subsequent spoilage.

Restrictions/Maximum level of use

Benzoic acid and its potassium and sodium salts

0.1%

Dehydroacetic acid and its sodium salt Erythorbic acid Metabisulfites of potassium and sodium

Methyl paraben

Nisin

Nitrate of potassium and sodium Nitrate of sodium

Prophyl paraben Propionic acid and its calcium and sodium salt Ascorbic acid and its potassium, calcium and

sodium salts

Sodium or potassium sulfate

Sulfur dioxide

65 ppm in cu/peeled squash

GMP.

Not in meat or food recognized as source of

Vit. B (thiamine)\*

0.1%

100 ppm in processed cheese; subject to

specific regulatory guidelines

500 ppm 200 ppm 0.1% 0.2 % 0.3 %

not in source of Vitamin B1\* not in source of Vitamin B1\*

#### ANTIOXIDANT SYNERGIST

Substances used to interact with antioxidants to produce a total greater than the sum of effects produced by the synergist and the antioxidant individually.

#### Restrictions/Maximum level of use

Calcium disodium EDTA 25-340 ppm\* Citric acid **GMP** Disodium EDTA 36-500 PPM\* Gum guaic (guaiac resin) GMP Isopropyl citrate 0.02 % Monoglyceride Citrate 200 PPM Phosphoric acid GMP Potassium citrate GMP Sodium citrate **GMP** 

#### **EMULSIFIERS**

Substances which modify surface tension in the component phase of an emulsion to establish a uniform dispersion or emulsion.

Accetic	acid	ester	of	mono	and	digi	ycer	ides
Ammon	ium	salt of	pi	nosoha	atidic	aci	d	

Brominated vegetable oil Cholic/Desoxycholic acid

Diacetyl-tartaric acid ester of mono and di-

alycerides

Diatyl sodium sulfosticcinate Ethoxylated mono and diglycerides

(Polyglycerate 60)

Glycerol ester of wood resin Glyceryl lactoesters of fauy acids

(Lactic acid esters of mono and diglycerides)

Glyceryl (glycol) monostearate

Hydroxylated lecithin

#### Restrictions/Medium Level of Use

GMP

50 ppm in cocoa powder and cocoa sugar mixtures 15 ppm in beverages 0.1 % in dried egg white

**GMP** 

0.5 -25 ppm 0.2 - 0.5 %

100ppm in beverages

GMP

2 % in macaroni products.

GMP.

GMP

<sup>\*</sup>Refer to annex I for Recommended levels in certain products:

<sup>\*</sup>Refers to annex I Recommended Levels in certain food products.

GMP
GMP
GMP
GMP*
0.1 in dried egg white
0.002 % in cheese, GMP
GMP
0.5% in bakery products
0.05-1.0%*
0.05-0.5%*
0.1-1.0%
GMP
GMP
GMP
0.2-0.5%
1.0% in margarine
3.0% in liquid and plastic shortening
GMP
1.0-2.0%*
1 0-2.0%*
1 0-2.0%*

<sup>\*</sup>Refer to Annex 1 for Recommended Levels in certain food products

## FIRMING AGENTS

Substances added to precipitate residual pectin, thus strengthening the supporting tissue and preventing its collapse during processing.

	Restrictions Maximum Level of Use
Aluminum Sulfate	GMP
Calcium carbonate	GMP
Calcium Chloride	GMP
Calcium lactobionate	GMP
Calcium phosphate, monobasic	GMP
Calcium sulfate	GMP
Magnesium chloride	GMP

## FLAVOR ENHANCERS

Substances added to supplement, enhance, or modify the original taste and/or aroma of a food without imparting a characteristics taste or aroma.

	Restriction Maximum Level of Use
Disodium guanylate	GMP
Disodium inosinate	GMP
Glutamic acid	GMP
Monoammonium glutamate	GMP
Monopotassium glutamate	GMP
Monosodium glutamate	GMP

## FLOUR TREATMENT AGENTS/DOUGH CONDITIONER

Substances added to milled flour, at the mill, to improve its color and baking qualities, including bleaching and maturing agents. Dough conditioners modify starch and gluten, thereby producing a more stable dough.

A DALLO DEGROOMS	Restriction Maximum Level of Use GMP
Acetone peroxide	1/73/2010
Ammonium chloride	GMP
Ammonium persulphate	250 ppm of flour
Ammonium phosphate, monobasic	GMP
Ammonium phosphate, dibasic	GMP
Ammonium sulfate	GMP
Ascorbic acid	200 ppm of flour
Azodicalbonamide	45 ppm of flour
Benzoyl peroxide	150 ppm of flour
Calcium Bromate	75 ppm of flour
Calcium carbonate	GMP
Calcium iodate	45 ppm of flour
Calcium lactate	GMP
Calcium peroxide	100 ppm of flour
Calcium phophate, monobasic	GMP
Calcium phosphate, dibasic	GMP
Calcium stearoyl-2-lactylate	5000 ppm of flour
Calcium Sulfate	GMP
Chlorine/chlorine dioxide	GMP
L-Cysteine (hydrochloride)	GMP
Ethoxylated mono- and di-glycerides	5000 ppm of flour
Lactylic stearate	5000 ppm of flour
Potassium bromate (banned 1994)	100 ppm of flour
Potassium iodate	75 ppm of flour
Potassium persulphate	100 ppm of flour
Södium stearoyl-2-lactylate	5000 ppm of flour
Södium stearyl fumarate	5000 ppm of flour
Succinylated monoglycerides	5000 ppm of flour
The state of the s	over point of most

## FOOD ACIDULANTS

Acids normally presently in food which, when added to food, produces an agreeable sharp or tart taste in the product.

## Restriction/Maximum Level of Use

Acetic Acid	GMP*
Citric Acid	GMP
Furnaric Acid	GMP
Lactic Acid	GMP
Malic Acid	GMP
Phosphoric Acid	GMP
Tartaric Acid	GMP
and their calcium, potassium and sodium salts.	

<sup>\*</sup>not in vinegar or in food products where it is claimed that vinegar is the acidulant added.

## HUMECTANTS

Substances incorporated in food to promote retention of moisture, including anti-dusting agents.

Restriction/Maximum Level of Use

Glycerol (Glycerine) GMP
Propylene Glycol GMP
Sorbitol GMP
Triacetin (Glycerol triacetate) GMP

## FOOD COLORS

Substances used to impart color or shade to a food

Annatto extract  C1 75120/ C1 Natural Orange + EEC No. EL60b  Beet powder (dehydrated beets)  Beta-carotene	Class 1	Code No.	Restriction/Maximum Level of Use
Deat powder (dehydrated beets)   GMP	Annatto extract		
Beet powder (dehydrated beets)   Beta-carotene	THE PERSON NAMED AND PARTY.		SWIFE
Beta-carotene	Beet powder (dehydrated beets)	2.0.30	GMP
Beta-apo-8' carotenal		EEC No E160a	
Canthaxanthin	Beta-apo-8' carotenal		
Carrot oil   Caramel   Carmine/Cochineal extract   C1 75470   GMP   GMP   GMP   Curcumin   C1 Natural Red + C1 75300   GMP			
Caramel   Carmine/Cochineal extract   C1 75470   GMP   GMP	Carrot oil		
Carmine/Cochineal extract	Caramel		
Curcumin C1 Natural Red + C1 75300 GMP  Fruit Juice/Vegetable Juice Grape skin extract (enocianine) GMP  Grape skin extract (enocianine) GMP  Grape color extract Iron oxides a Yellow (hydrated ferrie oxide) b Red (anhydrous ferrie oxide)  Daprika/Paprika oleoresin C177491)  Paprika/Paprika oleoresin GMP  Riboflavin (Lactoflavin/Riboflavin 5' GMP  Riboflavin (Lactoflavin/Riboflavin 5' GMP  Titanium dioxide (pigment white 6) C1 774891 1.0 %  Turmeric/Turmeric eleoresin GMP  (Powdered turmeric, indian saffron)  Class 11  Allura Red (FD & C Red # 40) C1 16035 GMP  EEC No. E123  Brilliant Black PN C1 28-440 GMP  (Black PN, Brilliant Black PN) C1 Food Black 1  EEC. No. E151  Chocolate Brown HT C1 20285 GMP*  Brown Ht, Brown HS) C1 Food Brown 3  Brilliant Blue FCF C1 42090 GMP*  (FD & C Blue # 2) C1 Food B2	Carmine/Cochineal extract	C1 75470	
Curcumin	A CONTRACTOR OF THE PROPERTY O		OWIF
Fruit Juice/Vegetable Juice Grape skin extract (enocianine) grape color extract Iron oxides	Curcumin		GMP
Fruit Juice/Vegetable Juice Grape skin extract (enocianine) grape color extract Iron oxides			OWI
Grape skin extract (enocianine) grape color extract     Iron oxides	Fruit Juice/Vegetable Juice		GMP
GMP   GMP		197	
Iron oxides			OWI
a Yellow (hydrated ferrie oxide) b Red (anhydrous ferrie oxide)  C177491)  Paprika/Paprika oleoresin Riboflavin (Lactoflavin/Riboflavin 5' - GMP Phosphate-sodium Saffron Titanium dioxide (pigment white 6) Turmeric/Turmeric eleoresin (Powdered turmeric, indian saffron) Class 11 Allura Red (FD & C Red # 40)  C1 16035 C1 Food Red 17 Amaranth (FD & C Red # 2)  Brilliant Black PN (Black PN, Brilliant Black PN) C1 Food Black 1 EEC. No. E123 Chocolate Brown HT Brown Ht, Brown HS) C1 Food Brown 3 Brilliant Blue FCF (FD & C Blue # 2) C1 Food B2  C1 Food B2  C1 Food B2  GMP*			GMP
Description		C1 77492)	GMIP
Paprika/Paprika oleoresin   C177491)   GMP		-	
Paprika/Paprika oleoresin		C177491)	
Riboflavin (Lactoflavin/Riboflavin 5' - GMP	Paprika/Paprika oleoresin		GMP
Phosphate-sodium   Saffron   GMP		-	1000
Saffron   Class   Cl			Olvir
Titanium dioxide (pigment white 6) Turmeric/Turmeric eleoresin (Powdered turmeric, indian saffron) Class 11 Allura Red (FD & C Red # 40) C1 16035 C1 Food Red 17 Amaranth (FD & C Red # 2) C1 16185 EEC No. E123 Brilliant Black PN (Black PN, Brilliant Black PN) C1 Food Black 1 EEC. No. E151 Chocolate Brown HT C1 20285 Brown Ht, Brown HS) C1 Food Brown 3 Brilliant Blue FCF (FD & C Blue # 2) C1 Food B2			GMP
Turmeric/Turmeric eleoresin (Powdered turmeric, Indian saffron) Class 11 Allura Red (FD & C Red # 40) C1 16035 C1 Food Red 17 Amaranth (FD & C Red # 2) C1 16185 EEC No. E123 Brilliant Black PN (Black PN, Brilliant Black PN) C1 Food Black 1 EEC. No. E151 Chocolate Brown HT Brown Ht, Brown HS) C1 Food Brown 3 Brilliant Blue FCF (FD & C Blue # 2) C1 Food B2	Titanium dioxide (pigment white 6)	C1 774891	
(Powdered turmeric, Indian saffron)       Class 11         Allura Red (FD & C Red # 40)       C1 16035       GMP*         C1 Food Red 17       C1 16185       GMP*         Amaranth (FD & C Red # 2)       C1 16185       GMP*         Brilliant Black PN       C1 28-440       GMP         ( Black PN, Brilliant Black PN)       C1 Food Black 1       EEC. No. E151         Chocolate Brown HT       C1 20285       GMP*         Brown Ht, Brown HS)       C1 Food Brown 3       GMP*         Brilliant Blue FCF       C1 42090       GMP*         (FD & C Blue # 2)       C1 Food B2			
Class 11 Allura Red (FD & C Red # 40) C1 16035 C1 Food Red 17  Amaranth (FD & C Red # 2) C1 16185 EEC No. E123  Brilliant Black PN (Black PN, Brilliant Black PN) C1 Food Black 1 EEC. No. E151 Chocolate Brown HT Brown Ht, Brown HS) C1 Food Brown 3 Brilliant Blue FCF (FD & C Blue # 2) C1 Food B2	(Powdered turmeric, Indian saffron)		O.III
Amaranth (FD & C Red # 2)  C1 Food Red 17  C1 16185  EEC No. E123  Brilliant Black PN (Black PN, Brilliant Black PN)  C1 Food Black 1  EEC. No. E151  Chocolate Brown HT C1 20285  Brown Ht, Brown HS)  C1 Food Brown 3  Brilliant Blue FCF (FD & C Blue # 2)  C1 Food B2			
Amaranth (FD & C Red # 2)  C1 Food Red 17  C1 16185  EEC No. E123  Brilliant Black PN (Black PN, Brilliant Black PN)  C1 Food Black 1  EEC. No. E151  Chocolate Brown HT C1 20285  Brown Ht, Brown HS)  C1 Food Brown 3  Brilliant Blue FCF (FD & C Blue # 2)  C1 Food B2	Allura Red (FD & C Red # 40)	C1 16035	GMP*
Amaranth (FD & C Red # 2)  Brilliant Black PN ( Black PN, Brilliant Black PN)  C1 28-440 C1 28-440 C1 Food Black 1 EEC. No. E151 Chocolate Brown HT Brown Ht, Brown HS)  C1 Food Brown 3  Brilliant Blue FCF (FD & C Blue # 2)  C1 Food B2			Citi
Brilliant Black PN	Amaranth (FD & C Red # 2)	C1 16185	GMP*
( Black PN, Brilliant Black PN) C1 Food Black 1		EEC No. E123	1.000
( Black PN, Brilliant Black PN)	Brilliant Black PN	C1 28-440	GMP
Chocolate Brown HT	( Black PN, Brilliant Black PN)	C1 Food Black 1	3075
Brown Ht, Brown HS) C1 Food Brown 3  Brilliant Blue FCF C1 42090 GMP*  (FD & C Blue # 2) C1 Food B2	A	EEC. No. E151	
Brilliant Blue FCF C1 42090 GMP*  (FD & C Blue # 2) C1 Food B2	Chocolate Brown HT	C1 20285	GMP*
(FD & C Blue # 2) C1 Food B2	Brown Ht, Brown HS)	C1 Food Brown 3	72000
(FD & C Blue # 2) C1 Food B2	Brilliant Blue FCF		GMP*
Citrus Red 2 only for peel of ranges 2 npm	(FD & C Blue # 2)	C1 Food B2	225000
entry to profess the pattern	Citrus Red 2		only for peel of ranges, 2 ppm

<sup>\*</sup>The label of food whose reasonably forsceable consumption may result in a daily ingestion of 50 grams of sorbitol shall bear the statement " Excess consumption may have a laxative effect"

Fast Green FCF	C1 42053	GMP*
(FD & C Green # 3)	C1 Food Green	
Indigotine (FD & C Blue # 1;	C1 73015	GMP*
(Indigo Carmine)	C1 Food Blue 2	

Orange B only for surface of sausage

casing, 150 ppm GMP\*

Sunset Yellow (FD & C Yellow #6) C1 15985

C1 Food Yellow 3

EEC #E110

Tartrazine (FD & C Yellow #5) C1 19140 GMP\*

C1 Food Yellow 4

EEC # E102

Erythrosine (FD & C Red #3) C1 45430 GMP\*

C1 Food Red 14 EEC No. E127

#### LEAVENING AGENTS

Substances used to produce or stimulate production of carbon dioxide in baked goods to impart a light texture.

#### Restrictions/Maximum Level of Use

Ammonium bicarbonate	GMP
Ammonium phosphate, mono- and di-basic	GMP
Calcium phosphate, mono-basic	GMP
Dried yeast	GMP
Glucono-delta lactone	GMP
Sodium acid pyrophosphate	GMP
Sodium aluminum phosphate	GMP
Sodium bicarbonate	GMP

#### SURFACE-FINISHING AGENTS

Substances used to enhance palatability, preserve gloss or inhibits discoloration of foods, including glazes, polishes, waxes and protective covering.

#### Restrictions/Maximum Level of Use

Beeswax
Cadelila Wax
Carnauba Wax
Castor Oil
Petrolatum

0.4% in confectionary; GMP
0.4% in confectionery; GMP
0.4% in confectionery; GMP
0.4% in confectionery; GMP
0.2% in confectionery; GMP
0.2% in confectionery
0.15% in bakery products

0.02 % in dried fruits & vegetables

Polyethylene glycol on fresh fruits:GMP

Rice bran Wax 50 ppm in candy; fresh fruits & veg.

2.5 % in chewing gum

<sup>\*</sup> singly or in combination should not exceed 300 ppm

#### NUTRIENT SUPPLEMENTS

Substances that are necessary for human body's nutritional and metabolic process.

#### Restrictions/Maximum Level of Use

Amino acids in the free hydrated or anhydrous form or as the hydrochloride. sodium or potassium salts. L-Alanine L-Alginine

L-Asparagine L-Aspartic acid L-Cystine

L-Cysteine L-Glutamic acid

Glycine ( Aminoacetic acid )

L-Histidine L-Isoleucine L-Leucine L-Lysine

DL-Methionine L-Methionine L-Phenylalanine

L-Proline L-Serine L-Threonine L-Tryptophan L-Tyrosine L-Valine

Aluminum nicotinate N-Acetyl-L-Methionine

Ascorbic acid Bakers Yeast Protein (Saccharomyces

cerevisiae) Biotin

Calcium citrate Calcium carbonate

Calcium glycerophosphate

Calcium oxide

Calcium Pantothenate ( Calcium chloride Double

Salt of

Calcium Phosphate (Mono, di and tribasic)

Calcium pyrophosphate

Caroteten Choline Bitartrate Choline Chloride Copper Gluconate

Copper ( Cuprous) Iodide Ferric Phosphate

Ferric Pyrophosphate

Ferric Sodium Pyrophosphate

Ferrous Furnarate Ferrous Gluconate Ferrous Lactate Ferrous Sulfate

Fish Protein Concentrate

( not for infant foods)

( except in infant foods and foods containing, nitrities & nitrates)

0.005 %

0.01 % in table salt

Folic Acid (Folacin)

0.1 mg per day for infants- below 0.3 mg per day for children (4 years) old 0.4 mg per day for adults and children above 4 years old 0.8 mg per day for pregnant or lactating women

Glutamic acid ( or hydrochloride) Inositol Iron, reduced Iron-Choline Citrate Complex

Keip

As source of lodine dietary foods 0.045 mg I / day for infants 0.105 mg I / day for children below 4 years old 0.25 mg I / day for adults and children above years old 0.03 mg I / day for pregnant or lactating women

Niacin Nacinamide Niacinamide ascorbate Nicotinamide -ascorbic acid complex D-Pantothenamide D-Pantothenyl alcohol Potassium chloride

Potassium lodide 0.01 mg in salt 0.045 mg I / day for infants

0.105 mg I / day for children below

4 years old

0.225 mg I / day for adults and

0.30 mg I / day for pregnant or lactating women

Pyridoxine hydrochloride Riboflavin. Riboflavin-5-phosphate Sodium pantothenate Sodium phosphate Thiamine Hydrochloride Thiamine mononitrate Tocopherols L-Tocopheryl acetate Vitamin A

Vitamin A acetate Vitamin A palmitate

Vitamin B6 Vitamin B12 Vitamin D2 Vitamin D3 Vitamin K Zinc chloride Zinc gluconate

Zinc methionine sulfate

Zinc oxide Zinc stearate Zinc sulfate

Linoleic acid

Magnesium oxide

prepared from edible fats & oils

Magnesium phosphate ( di, & Tri basic)

Magnesium Sulfate

Manganese - Chloride ( Citrate, gluconate,

glycerophosphate, orthphosphate, oxide, sulfate)

Manganous oxide

## pH-CONTROL AGENTS

Substances added to change or maintain active or basicity, including buffers, acids and alkalies.

	Restrictions/Maximum Levels of Use
Acids	GMP
Acetic acid	GMP
Adipic acid	GMP
Citric acid	GMP
Gluconic acid	GMP
Glucono-delta-lactone	GMP
Hydrochloride acid	GMP
Lactic acid	GMP
Matic acid	GMP
Phosphoric acid	
Succinic acid	GMP
Sulfuric acid	GMP*
	GMP*
Tartaric acid	GMP
Alkalies	
Ammonium bicarbonate	GMP
Ammonium carbonate	GMP
Ammonium hydroxide	GMP
Calcium carbonate	GMP
Calcium hydroxide	GMP
Calcium oxide	GMP
Magnesium carbonate	GMP
Magnesium hydroxide	GMP
Magnesium oxide	GMP
Potassium bicarbonate	GMP
Potassium carbonate	GMP
Potassium hydroxide	GMP
Magnesium carbonate	
Magnesium hydroxide	GMP
Magnesium oxide	GMP
	GMP
Potassium hydroxide	GMP
Sodium Bicarbonate	GMP
Sodium Carbonate	GMP
Sodium hydroxide	GMP
Buffers	
Aluminum ammonium sulfate	GMP
Aluminum potassium sulfate	GMP
Aluminum sodium sulfate	GMP
Ammonium phosphate, mono-and-di-basic	GMP
Ammonium sulfate	GMP
Calcium citrate	GMP
Calcium gluconate	GMP
Calcium lactate	GMP
Calcium phosphate, mono-and-di-basic	GMP
Calcium pyrophosphate	GMP
Potassium citrate	GMP
Potassium phosphate, mono-and-di-basic	GMP
	GIVIP

Sodium acetate	GMP	
Sodium citrate		
	GMP	
Sodium Phosphate, mono-and-di-basic	GMP	
Sodium pyrophosphate	GMP	
and the prosperior	GWP	

<sup>\*</sup>Refers to annex 1 for Recommended Levels in certain food products.

## SEQUESTRANTS

Substances which combine with polyvalent metal ions to form a soluble metal complex to improve the quality and stability of products.

46.000	Restrictions/Maximum Levels of Use
Calcium acetate	GMP
Calcium chloride	GMP
Calcium citrate	GMP
Calcium diacetate	GMP
Calcium diacetate	GMP
Calcium disodium EDTA	GMP
Calcium gluconate	GMP
Calcium hexa metaphosphate	GMP
Calcium phosphate, monbasic	GMP
Calcium phytate	GMP
Calcium sulfate	GMP
Citric acid	GMP
Dipotassium phosphate	GMP
Disodium EDTA	GMP
Disodium phosphate	GMP
Isopropyl citrate	GMP
Phosphoric Acid	GMP
Potassium Citrate	GMP
Sodium Acid Phosphate	GMP
Sodium diacetate	GMP
Sodium gluconate	GMP
Sodium hexametaphosphate	GMP
(sodium polyphosphate)	OWI
Sodium metaphosphate	GMP
Sodium potassium tartrate	GMP
Sodium phosphate	GMP
Sodium pyrophosphate	GMP
(tetrasodium pyrophosphate)	Omr
Sodium tartrate	GMP
Sodium tripolyphosphate	GMP
Tartaric acid	GMP
Stearyl Citrate	0.15%
Triethyl citrate	0.25%
*Refer to Annex 1 for Recommended levels in certi-	ain food products

# STABILIZERS AND THICKENERS

Substances used to produced viscous solutions or dispersions, to impart body, improve consistency or stabilize emulsions including suspending and bodying agents, setting and gelling agents.

# Vegetable Gum arabic (acacia) Restrictions/Maximum Levels of Use GMP

Gum Guar GMP Gum karaya GMP

Gum tragacanth	GMP
Larch gum (arabinogalactan)	GMP
Locust (carob) bean gum	GMP
Pectin	GMP
Seaweed Gums	
Agar	GMP*
Alginic acid and its ammonium, calcium,	GMP*
potassium and sodium	
Carraggeenan and its ammonium, calcium,	GMP*
potassium and sodium salts	
Furcelleran and its ammonium, calcium,	GMP*
potassium and sodium salts	
Modified Gums	
Dextrin/maltodextrin	GMP
Ethyl cellulose	GMP
Hydroxypropyl cellulose	GMP
Hydroxypropyl methy cellulose	GMP
Methyl Cellulose	GMP
Modified food starch	GMP
Sodium carboxymethyl cellulose	GMP*
Xanthan gum	GMP
Gelatin	GMP
Others	
Calcium caseinate	GMP
Sodium caseinate	GMP

<sup>\*</sup>Refer to Annex 1 for Recommended levels in certain food products

## **SWEETENERS**

#### Non-Nutritive Sweeteners

Substances with less than 2% of the caloric value of sucrose per equivalent unit of sweetening capacity.

#### Asparatame

Saccharin and its ammonium, calcium or sodium salts

The above listed substances are subject to restrictions stipulated in the Regulatory Guidelines for Non-Nutritive Sweeteners.

## Nutritive Sweeteners

Substances with more than 2% of the caloric value of sucrose per equivalent unit of sweetening capacity.

	Restrictions/Maximum Levels of Use	
Fructose	GMP	
Glucose (Dextrose)	GMP	
Lactose	GMP	
Maltose	GMP	
Mannitol	GMP*	
Sorbital	GMP*	
Xylital	GMP	

<sup>&</sup>quot;The label of food whose reasonably forseeable consumption may result in a daily ingestion of 20 grams of mannitol or 50 grams of sorbitol shall bear the statement "Exceeds consumption may have a laxative effect."

# MISCELLANEOUS FOOD ADDITIVES

	Specified Use	Restrictions/Maximum Levels of Use
Caffeine Microcystalline Ferrous gluconate Gibberellic acid and its potassium salt Quillaia extract Butadiene styrene rubber Isobutylene-Isoprene Copolymer Natural Masticatory	In cola type beverages Texturizer Color retention in ripe olives Enzyme activator in malting of Barley foaming agent in beverages ) ) ) ) As component of chewing	200 ppm 2.0% in frozen desserts GMP GMP GMP GMP
Substances Lanolin Polyisobutylene Polyvinyl acetate Terpene resin Whey	) gum base ) ) ) As source of nutrients	GMP
PROCESSING AIDS		
	Name of substances	Restriction/Maximum Level of Use
Antifoam Agent	Dimethyl polysiloxane	No residue in milk 100 ppm in dry gelatin dessert mixes 10 ppm in other food & beverages
Clarifying Agents	Bentonite Palyvinylpolypyrrolidone Palyvinylpyrrolidone	GMP To be removed by filtration in beverages & vinegar 10 ppm in beer 40 ppm in vinegar
Catalyst	Tannic Trifluoromethane Sulfunic acid	60 ppm in wine GMP In production of cocoa powder Substitute from palm oil; 2ppm fluoride as residue in the finished
Contact Freezing Agent Extraction/Carrier Solvents	Dichlorodifluoromethane Acetone Ethylene dichloride (dichloroethane) Hexane	product GMP Residue not to exceed 30 ppm Residue not to exceed 30 ppm
		Residue not to exceed 25 ppm In spices & natural extracts; 6ppm In lemon oil, 2% in hop extracts; 0.15 in fish protein
	Methyl alcohol	Residue not to exceed 50 ppm In spices & natural extracts; 2% in hop extracts
	Methylene chloride (Dichloromethane)	Residue not to exceed 30 ppm In spices & natural extracts; 2% in hop extracts; 10 ppm in decaffeinated coffee

Trichloroethylene	25 ppm in decaffeinated ground coffee
	10 ppm in decaffeinated soluble (instant) coffee
	30 ppm in spices/oleoresins
Oxystearin Diatomaceous earth	0.125% combined weight or oil
Ion-exchange membranes	in accordance w/ CFR 173.25
Ion-exchange resins Vegetable carbon activated	in accordance w/ CFR 173.25
	In beet or cane sugar production
	5 ppm of juice 100 ppm of liquor
Acetylated monoglycerides	GM
Castor Oil	GMP
Hydrogenated sperm oil	GMP
Mineral oil	GMP
Petrolatum	GMP
Butane	GMP
Carbon dioxide	GMP
Chloropentafluoroethane	GMP
Nitrogen	GMP
	GMP
Octafluorocyclobutane	GMP
Propane	GMP
Source	Restrictions/Maximum Level of
	Use
Bovine Liver	GMP
Edible forestomach	GMP
Glandular layer of porcine stomach	GMP
	GMP
stomach of bovine animals,	OWN
	GMP
	GWE
and the parties and	
Barley Malt	GMP
Pineapples-Ananas comosus	GMP
and Anans bracteatus	
Latex of fig tree (Fiscus sp.)	GMP
Carica papaya L	GMP
Source	Restrictions/Maximum Level of Use
Asperollius niger va	GMP
Aspergillus oryzae var.	GWF
Saccharomyces sp.	
Asperallius siese	2112
	GMP
	State State
Dacillus coagulans var	GMP
	Oxystearin Diatomaceous earth Ion-exchange membranes Ion-exchange resins Vegetable carbon activated Acrylate-acrylamide-resin  Acetylated monoglycerides Castor Oil Hydrogenated sperm oil Mineral oil Petrolatum Butane Carbon dioxide Chloropentafluoroethane Nitrogen Nitrous Oxide Octafluorocyclobutane Propane  Source  Bovine Liver Edible forestomach Tissue of calves, kids, or lambs; animal pancreatic tissue Glandular layer of porcine stomach Aqueous extracts from the fourth stomach of bovine animals, sheep and goats Purified extracts of porbine or bovine pancreas  Barley Malt Pineapples-Ananas comosus and Anans bracteatus Latex of fig tree (Fiscus sp.) Carica papaya L  Source  Aspergillus niger va Aspergillus oryzae var.

	Steptomyces olivochromogenes var.	
01	Actinoplanes missourieness var	
Glucose Oxidase	Aspergillus niger var.	GMP
Lipase	Aspergillus niger var.	GMP
Protease	Aspergillus niger var.	
	Aspergillus oryzae var	
Rennet	Bacillus subtilis var	21.2
Vegetable Gums	Mucor species	GMP
vegetable Guills		
Gum arabic (acacia)		GMP
Gum guar		GMP
Gum karaya		GMP
Gum tragacanth		GMP
Larch gum (arabinogalac	tan)	GMP
Locust (carob) bean gum		GMP
Pectin		GMP
Seaweed Gums		
Agar		GMP
Alginic acid and its ammo		GMP
calcium, potassium and		
Carraggeanan and its an		GMP
calcium, potassium and	sodium,	
and salts	2000	
Forcelleran and its ammo		GMP
calcium, potassium and and salts	sodium,	
Modified Gums		
Dextrin maltodextrin		GMP
Ethyl cellulose		GMP
Hydroxypropyl cellulose		GMP
Hydroxypropyl methyl ce	lulose	GMP
Many cellulose		GMP
Methyl ethyl cellulose		GMP
Modified food starch		GMP
Sodium carboxymethyl o	ellulose	GMP
Xanthan gum		GMP
Gelatin		GMP
Others		
Calcium caseinate		GMP
Sodium caseinate		GMP
		541411

#### Recommended Levels of Use for some Food Additives

## AGAR

Ice cream, Ice cream mix, Ice milk

Ice milk mix

Sherbet

0.5%

0.75%

ALGINIC ACID

Infant Formula 0.3% as consumed. If in combination with

carrageenan or guar gum or both, the total not to

exceed 0.03%.

Cottage Cheese, Creamed cottage cheese, 0.5%

Ice Cream, Ice Cream Mix Sherbet 0.75%

BHA

Dehydrated potato shreds 50 ppm

 Active dry yeast
 1000 ppm

 Beverages & desserts prepared
 2 ppm

 Dry breakfast cereals
 50 ppm

 Dry diced glazed fruit
 32 ppm

 Dry mixes for beverages & desserts
 90 ppm

 Emulsion stabilizers for shortening
 200 ppm

 Potato flakes
 50 ppm

Potato flakes 50 ppm
Potato granules 10 ppm
Sweet potato flakes 50 ppm

Chewing gum

0.02%; If BHT or propyl gallate is also used.

the total must not exceed 0.02%

Chewing gum base 1000 ppm

Essential oils, citrus oil flavors 0.125%, If BHT or propyl gallate is also used,

dry flavours the total must not exceed 0.12%

Citrus oil 0.5%; If BHT or propyl gallate is also used, the

total must not exceed 0.15

Partially defatted pork fatty tissue. 0.0065%: If BHT is also used, the total must

Partially defatted beef fatty tissue. not exceed 0.0065%

Vitamin A Liquid for addition to food 5 mg/1,000,000 units

Other unstandardized tools (except) unstandardized preparations of:

a) meat and meat by-products

b) fish

c) poultry meat and poultry meat

by-products)

0.02% of the fat or the oil content of the food. If BHT or propyl gallate is also used, the total must not exceed 0.02g of the fat or

the oil content of the food.

#### BHT

Dehydrated potato shreds 50 ppm
Dry breakfast cereals 50 ppm
Emulsion stabilizers for shortening 200 ppm
Potato flakes 50 ppm
Potato granules 10 ppm
Sweet potato flakes 50 ppm

Chewing gum 0.02%; If BHA or propyl gallate is also used, the total must not exceed 0.02%

Chewing gum base 1000 ppm

Essential oils, citrus oil flavours, dry flavours 0.125%; If BHA or propyl gallate is also

Citrus oils used, to total must not exceed 0.125%

0.5; If BHA or propyl gallate is also used the

total must not exceed 0.5%

Partially defatted pork fatty tissues, 0.0065%; If BHA is also used the total not

Partially defatted beef fatty tissues, exceed 0.0065%:

Vitamin A liquid for addition to food 5 mg/1,000,000 units

Parboiled rice 0.0035% Rice, enriched 33 ppm

#### CALCIUM DISODIUM EDTA

Cabbage, pickled 220 ppm Canned carbonated softdrinks 33 ppm Canned white potatoes 110 ppm Clams (cooked, canned) 340 ppm Crabmeat (cooked, canned) 275 ppm Cucumbers pickled 220 ppm Distilled alcoholic beverages 25 ppm Dressings, nonstandardized 75 ppm

Egg product that is hard-cooked and consists 220 ppm by weight of egg yolk portion

in a cylindrical shape of egg white with an inner

core of egg yolk.

Fermented malt beverages 25 ppm French dressing 75 ppm Mayonnaise 75 ppm Mushroom (cooked, canned) 200 ppm Oleomargarine 75 ppm Pecan pie filling 100 ppm Potato salad 100 ppm Processed dry pinto beans 800 ppm Sandwich spread 100 ppm Salad dressing 75 ppm Sauces 75 ppm Shrimp (cooked, canned) 250 ppm Spice extractives in soluble carriers 60 ppm Spreads, artificially colored and lemon flavored or 100 ppm orange flavored

## CARRAGEENAN

## Carrageenan Concentrated

Cottage cheese, Creamed cottage cheese, Ice cream, Ice cream mix, Ice Milk, Ice milk mix	0.5%
Evaporated milk	0.015%
Sherbet	0.75%

Infant formula based on isolated amino acids or

protein hydrolysates or both

0.1% as consumed. If used in combination with algain or guar gum or bothe, the total must not

exceed 0.1%

Infant formula 0.3% as consumed. If used on combination with

algin or guar not exceed 0.03%

25 ppm of the finished beverage

Sour cream Cream cheese and Cream cheese spread

0.5% 0.05%

## DIACETYL TARTARIC ESTERS OF MONO AND DIGLYCERIDES

Edible fats and oils 20g/kg singly or in combination with other

emulsifier

Margarine 10g/kg singly or in combination with other

emulsifier

Furnaric acid-acidulated foods

Dry gelatin dessert 15 ppm of the finished gel. Dess. Dry beverages base 10 ppm of the finished drink

Unrefined cane sugar 0.5 ppm per percentage point of succrose in the

juice, syrup or masseruite being processed so the final molasses will contain no more than 25 ppm

315 ppm in dried banana component of cereal

Cocao fat in noncarbonated beverage containing

cocoa

## DISODIUM EDTA

Canned black eyes peas 145 ppm Canned cooked chickpeas 165 ppm Canned kidney beans 165 ppm Canned strawberry pie filling 50 ppm Cooked sausages 36 ppm Dressings, nonstandardized 75 ppm French dressing 75 ppm Frozen white potatoes including cut potatoes 100 ppm 75 ppm

Mayonnaise

Ready to eat cereal products containing dried

bananas

products Salad dressing 7.5 ppm Sandwich spread 100 ppm Sauces 75 ppm

#### **FURCELLERAN**

Ice cream and ice cream mix 0.5%

#### GELATIN

Cottage cheese, cream cottage cheese, ice cream.

ice cream mix, ice milk, ice milk mix

Sherbet Sour cream

Unstandardized foods Cream cheese spread

#### MONO-AND DIGLYCERIDES

Cocoa, Ice cream, Ice cream mix. Ice milk, Ice milk. A total of 0.55 of emulsifying agents

mix, Milk chocolate, sweet chocolate

Infant formula Non-edible sausage casings

Margarine

0.25% as consumed 0.35% of the casings

0.75%

Shortening

10.0% (except that the total combined mono & diglycerides, lactylate mono & diglycerides must

not exceed 20.0% of the shortening

Sherbet 0.75% Sour cream 0.3% Processed cheese, Processed cheese foods, and 0.5% Processed cheese spread-with or without added

ingredients

#### POLYSORBATE 60

Whipped edible oil topping 0.4% of the wt. Of the finished whipped edible oil

topping. Combination of sorbitan mono-stearate may be used in excess of 0.4%, provided that the amount does not exceed 0.77% and the sorbitan monostearate does not exceed 0.27% of the

finished whipped edible oil toppings.

Cake and cake mixes 0.46% on a dry weight basis. When used with

Polysorbate 65 or Sorbitan monostearate, it shall not exceed 0.46% not the Polysorbate 65 exceed 0.32% or Sorbitan monostearate exceed 0.61% and no combination shall exceed 0.66% as

calculated on a dry weight basis.

Nonalcoholic mixes to be added to alcoholic 4.5% by weight of the non-alcoholic mix

beverage in the preparation of mixed alcoholic drinks

Yeast leavened bakery products

Artificially sweetened gelatin dessert and mixes

Chocolate flavored syrup Powdered soft drink mixes

Unstandardized confectionery coatings

Cake icing, cake icing mix

Pudding, Pie filling Beverage base or mix

Sour cream substitute Unstandardized dressings, unstandardized

prepared canned cooking sauces

Unstandardized sandwich spreads and dips

Dry soup base or mix Dry batter coating mixes. 0.5% by wet, of the flour used. 0.5% on dry weight basis 0.5% in the finished product 4.5% by wt. of the mix

0.5% if any combination of Polysorbate 65. Sorbitan monostearate or Sorbitan tristearate are also used, the total must not exceed 1.0%

0.5% of the finished cake icing; If Polysorbate 80 or Sorbitan mono-stearate, either singly or in combination is also used, the total must not exceed 0.5% of the finished cake icing.

0.5% on dry weight basis

0.05% of the beverage, If Sorbitan Monostearate is also used the total must not exceed 0.05% of the

beverage 0.1%

0.3%

250 ppm in soup as prepared for consumption

0.5% of the dry mix

## POLYSORBATE 65

Flavored milk

Ice cream, Ice cream mix, Ice milk, Ice milk mix,

Sherbet

Unstandardized frozen desserts

cakes

Unstandardized confectionery coatings

Beverage base or mix

0.1% If polysorbate 80 is also used the total must

not exceed 0.1%

0.1%

0.3% on dry wt. basis. If Polysorbate 60 is also used, the total must not exceed 0.5% on dry weight

basis.

0.5% If any combination of Polysorbate 60. Sorbitan monostearate or Sorbitan tristearate are

also used, the total must not exceed 1.0%

0.5% of the beverage, If Sorbitan monostearate is also used, the total must not exceed 0.05% of the

beverage

Imitation dry cream mix 0.4%; If Polysorbate 60, Sorbitan monostearate or Vegetable oil creaming agent Polysorbate 80 either singly or combination is also

Whipped vegetable oil topping used, the total must not exceed 0.4%

Vegetable oil topping mix

Breath freshener products in candy tablet or gum

form

200 ppm

not exceed 0.1%

#### POLYSORBATE 80

Ice cream, Ice cream mix, Ice milk, Ice milk mix,

Sherbet

Unstandardized frozen desserts Pickles and relishes

Beverage base or mix

0.05%

0.05% of the beverage. If Sorbitan monostearate is also used, the total must not exceed 0.05% of the

0.1% If polysorbate 65 is also used the total must

Imitation dry cream mix 1%; If polysorbate 60 or Polysorbate 65 or

Sorbitan monostearate, either singly or combination is also used, the total must not exceed 0.4% 0.05%; If polysorbate 60 or Polysorbate 65 or

Whipped vegetable oil topping Sorbitan monostearate, either singly or combination

is also used, the total must not exceed 0.4%

Cake icing, cake icing mix 0.5% of the finished cake icing. If polysorbate 60 or

> Polysorbate 65 or Sorbitan monostearate, either singly or combination is also used, the total must

not exceed 0.5%

Salt 10 ppm Whipped cream 0.1%

Breath freshener products in candy tablet or gum 100 ppm

form

Cream cottage cheese mag 08

Spice oils and spice oleoresins for use in pumping

pickle employed in the curing of preserved meat or preserved meat by-products

Non-edible sausage casings

0.2% of the pumping pickle

0.15% of the casing

#### PROPIONATES

Bread, buns, rolls, whole or crackles wheat 1.57-3.76 g/kg of flour Cakes 0.94-4.47 g/kg of batter

Fruit cake 1.26-3.78 g/kg of batter; the higher content, the

less proportionate needed

Pie crust filling 1.25-3.12 g/kg batter, filing

## SODIUM CARBOXYMETHYCELLULOSE

Cottage cheese, cream cottage cheese, ice cream, 0.5%

ice cream mix, ice milk, ice milk mix

0.75% Processed cheese, Processed cheese foods, and 0.5% Processed cheese spread (with or without added

ingredients)

Cream cheese, cream cheese spread (with or 0.5%

without added ingredients)

## SODIUM DIACETATE

Breads and other yeast raised white flour products 2.2-3.78 g/kg of flour

Pie crust and filling 1.9-3.15 g/kg of flour filling Cakes 0.063-2.83 g/kg of batter Fruit cake (low fruit) 2.2-2.83, g/kg of batter

## SODIUM STEAROYL LACTYLATE

Baked products, pancakes, waffles 0.5% parts for each 100 parts by weight for flour

used

loings, fillings, puddings, toppings and prepared

mixes

Substitutes for milk or cream in coffee 0.3% by wt. of the finished edible fat-water

emulsion

Dehydrated potatoes 0.5% of the dry wt. Of the food Snack dips 0.2% by wt. Of the finished product 0.2% by wt. Of the finished product 0.2% by wt. Of the finished product

substitute

Sources or gravies 0.25% by wt. Of the finished product Sour cream substitute 1.0% of dry ingredient weight

## SODIUM SULPHITE, POTASSIUM SULPHITE

#### HYDROGEN SODIUM SULPHITE

Quick frozen shrimps and prawns 100 mg/kg in the edible part of the raw product 30

mg/kg in the edible part of cooked product

Quick frozen lobsters 100 mg/kg in the edible part of the raw product 30

mg/kg in the edible part of cooked product

Biscuit dough 500 ppm calc. As Sulphur dioxide

Gelatin GMP provided the finished product does not

contain more than 500 ppm calc. As Sulphur

0.4%-0.7% of drug ingredient weight

dioxide

Cake, cake mix 0.6% on a dry weight basis. If Polysorbate 60 is

also used, the total must not exceed 0.7% on a dry

weight basis.

Unstandardized confectionery coatings 1.0%; If any combination of Polysorbate 60, or

Sorbitan tristearate are also used, the total must

not exceed 1.0%.

Cake icing; cake icing mix 0.5% If the finished cake icing. If Polysorbate 80.

Polysorbate 60, either singly or combination is also

used, the total must not exceed 0.5% of the

finished cake icing

Beverage base or mix 0.05% of the beverage. If Polysorbate 80 is also

used, the total must not exceed 0.5% on the beverage total must not exceed 0.255 and also

with Polysorbate 65.

Dry soup base mix 250 ppm is soup as prepared for consumption

#### SORBATES

Bakery products

Cake mixes, doughnut mixes Fillings, fudges, icings, toppings Artificially sweetened jams, jellies and preserves Pickles and pickled products

Lexal of Aglimysotic (g/kg Batter) 85.09444,669

Maximum of 8-1% by weight

0.025-0.05%, the higher level being more appropriate to sweeter products

Edible fats and oils Margarine

Imitation dry cream mix, vegetables oil. Creaming agent, whipped veg. Oil topping, veg. Oil topping mix

SORBITAN MONOPALMITATE

28 alka singly or sombination of other amulsifiers.

## SORBITAN MONOSTEARATE

0.4%, If Polysorbate 65, Polysorbate 60 or Polysorbate 80, either singly or in combination is also used, the total must not exceed 0.4%, except that in the case of whipped veg. Oil topping a combination of Sorbitan monostearate & Polysorbate 60 may be used in excess of 0.%, If the amount of Sorbitan monostearate does not exceed 0.27% and the amount of polysorbate 60 does not exceed 0.77% of the weight of the whipped vegetable oil topping.

Cake, cake mix

Unstandardized confectionery coatings

Cake icing, cake icing mix

Beverage base or mix

0.6% on a dry weight basis. If Polysorbate 60 is also used, the total must not exceed 0.7% on a dry weight basis

1.0% If any combination of Polysorbate 60, Polysobate 65, or Sorbitan Tristearate are also used, the total must not exceed 1.0%

0.5% If the finished cake icing, If Polysorbate 80, Polysorbate 60 either singly or in combination is also used, the total must not exceed 0.5% of the finished icing.

0.05% of the beverage. If Polysorbate 80 is also used, the total must not exceed 0.05% of the beverage. If polysorbate 60 is also used, the total must not exceed 0.05% and also with Polysorbate

Dry soup base or mix

250 ppm is soup as prepared for sonsumption.

## STANNOUS CHLORIDE

Asparagus packed in glass containers or fully-lined 25 ppm calculated as tin

(lacquered) cans

SUCCINIC ACID

Condiments & relished 0.084% Meat products 0.0061%

SUCROGLYCERIDES

Edible fats & oil 20 g/kg, singly or in combination with other

emulsifiers

Margarine 10 g/kg

SUCROSE ESTERS OF FATTY ACIDS

Cocoa powder & dry cocoa-sugar mixtures 10 g/kg singly or in combination with other

emulsifers

Edible fats and oils 20 g/kg singly or in combination with other

emulsifers

SULFURIC ACID

Alcoholic beverages 0.014% Cheeses 0.0003%

SULPHUR DIOXIDE & OTHER SULPHITES

White sugar (Specification A) 20 mg/kg (Specification B) 70 mg/kg

Powdered sugar 20 mg/kg (residue resulting from white sugar used)

Soft sugars 40 mg/kg
Anhydrous dextrose 20 mg/kg
Dextrose monohydrate 20 mg/kg

Glucose syrup 400 mg/kg for the manufacture of sugar

confectionery only

Dried glucose syrup 40 mg/kg

150 mg/kg for the manufacture of sugar

confectionery only

Fructose 20 mg/kg (residue resulting from raw material)

Jam, jellies, citrus marmalade 100 mg/kg resulting from carry-over

SO<sub>2</sub> in Dried & Dehydrated Fruits & Vegetable SO<sub>2</sub> (ppm) 2000 Apricots Peaches 2000 Nactarines 2000 Pears 1000 Golden, bleached raisins 800 1500 Sulfur bleached raisins Apples 800 750-1500 Cabbage Potatoes 200-250 Carrots 200-250