

Note: This draft is only intended as a copy for comments during the stakeholder consultation period of the proposed guidelines. The content of this draft may change and does not prejudice any policy nor decision of the FDA. Citation of any text in this draft, for purposes other than the submission of comments as indicated in the issued announcement, is not recommended.

1 **FDA CIRCULAR**

2 No. _____

3
4 **SUBJECT : Updates and Amendments to the List of Banned and**
5 **Restricted Pesticides and Ingredients in Household/Urban**
6 **Pesticides**
7

8
9 **I. RATIONALE**

10 Household/urban pesticides (HUPs) as products which pose health and environmental risks
11 are subject to the regulation of the Food and Drug Administration (FDA). Principally, the
12 FDA ensures that only products which meet its technical standards and requirements on
13 safety, efficacy and quality are duly-authorized prior to being placed in the market,
14 consistent to Article 15 of Title II, Chapter I of Republic Act No. 7394 which provides that
15 "any consumer product, the sale or use of which has been banned or withdrawn in the
16 country of manufacture, shall not be imported into the country." To this end, the FDA
17 continuously conducts reviews of HUPs and its components as well as assesses evidence-
18 based local and/or international standards, policies and scientific researches to update its
19 technical standards and requirements.
20

21
22 In adherence with the country's agreements on pesticides and chemicals management,
23 including the Montreal Protocol, Stockholm Convention, Rotterdam Convention, and other
24 international conventions, and promote regulatory alignment with the Fertilizer and
25 Pesticides Authority (FPA), under the auspices of sound chemicals management, the list of
26 banned and restricted pesticides by the FDA is hereby updated.
27

28 Moreover, the list hereby serves as the consolidated reference for restricted and prohibited
29 pesticides and ingredients in HUPs, amending FDA Circular (FC) No. 2017-005, "List of
30 Banned Pesticides" and FC No. 2017-015, "Adoption of the ASEAN Cosmetic Directive
31 (ACD) Annexes II and VI as Standards for Household/Urban Pesticides (HUP)".
32

33
34 **II. OBJECTIVE**

35
36 The Circular aims to provide the list of banned and restricted pesticides and ingredients in
37 HUPs.
38

39
40 **III. SCOPE**

41
42 The Circular shall apply to HUPs and establishments that are engaged in the manufacture,
43 importation, exportation, sale, offer of sale, distribution, donation, transfer, and where
44 applicable, the use, testing, promotion, advertising, or sponsorship of such products.
45
46
47
48

1 **IV. GENERAL GUIDELINES**

- 2
- 3 A. The FDA shall ensure that HUPs made available in the market do not pose an
- 4 unacceptable risk to human and animal health, and to the environment, under any
- 5 use, directions or restrictions.
- 6
- 7 B. HUPs shall not contain any pesticides and/or ingredients banned by the DOH and
- 8 FDA. For such purposes, the FDA shall issue and maintain a list of banned
- 9 pesticides and ingredients in HUPs.
- 10
- 11 C. HUPs shall not contain any ingredients beyond the set restrictions, including but
- 12 not limited to the maximum permitted concentration and allowable conditions for
- 13 use. For such purposes, the FDA shall issue and maintain a list of restricted
- 14 pesticides and ingredients in HUPs.
- 15
- 16 D. Compliance to the restrictions set in these Guidelines shall not be construed as a
- 17 guarantee of an approval for any marketing authorization application filed with the
- 18 FDA. Such applications, including its product dossier, shall remain to be subject to
- 19 the full evaluation following the administrative and technical standards and
- 20 requirements under the product registration procedure provided in Department of
- 21 Health (DOH) Administrative Order (AO) No. 2019-0008 and its future
- 22 amendments.
- 23
- 24 E. All pending and new applications filed with the FDA containing ingredients
- 25 included in Annexes A and B shall be evaluated in accordance with these
- 26 Guidelines upon the effectivity of this Circular.
- 27
- 28 F. All HUPs with a valid CPR prior the issuance of this Circular which are not in
- 29 conformance to these Guidelines shall be given a three (3)-month non-extendible
- 30 grace period for phase out and are further subject to a Class I Recall upon
- 31 effectivity of this Circular. Marketing authorization holders (MAH) are hereby
- 32 directed to initiate and complete the recall of such products following these
- 33 Guidelines.
- 34
- 35 G. This order shall not preclude the FDA from disapproving applications where the
- 36 technical evaluation of the submission received indicate non-compliance to
- 37 adopted standards and regulations, including failure to display safety, quality, and
- 38 efficacy.
- 39
- 40 H. All FDA-licensed establishments holding valid CPRs for products which do not
- 41 contain any banned and restricted pesticides and ingredients beyond the
- 42 restrictions as specified in this Circular shall submit a notarized letter and
- 43 declaration statement of such fact, within sixty (60) days upon the effectivity of
- 44 this Circular.

46 **V. SPECIFIC GUIDELINES**

47 **A. List of Banned and Restricted Ingredients and Mixtures in HUPs**

48

49

50

- 1 1. The banned ingredients and mixtures listed on Annex A shall not be allowed
2 to form part of any HUP.
- 3
- 4 2. The ingredients and mixtures listed on Annex B shall not be allowed to form
5 part of any HUP, unless it adheres to the set restrictions therein.
- 6
- 7

8 **B. Review of the list of banned/restricted pesticides and ingredients in HUPs.**

9

10 The review shall be conducted by the FDA and said list shall be kept updated
11 accordingly. Such review shall be undertaken when HUP ingredients and mixtures
12 are banned and/or severely restricted in international conventions, treaties and
13 protocols, internationally-acceptable standards, and local regulatory authorities, due
14 to health and/or environmental risks, or may be triggered by health and
15 environmental concerns based on information collected during the registration
16 process as well as post-marketing surveillance data, including reported cases of
17 poisoning and adverse events.

18

19 **C. Product Recall.** This section reiterates the roles of the MAH and the FDA and
20 provides the guidelines on the recall of products which fall under Section IV.F. of
21 this Circular. The “Guidelines on Product Recall” under FC No. 2016-012 shall
22 apply. However, specifically on recall strategy and communication activities for
23 products affected by this Circular, the following shall apply:

24

- 25 1. **Role of the MAH and the FDA.** Upon effectivity of this Circular, the MAH
26 shall bear the overall responsibility in the initiation, implementation and
27 completion of a product recall strategy.

28
29 The FDA shall closely monitor and supervise the conduct of the product
30 recall of the MAH. Further, the FDA shall not be precluded from
31 intervening and enforcing any regulatory action and providing scientific,
32 technical and operational advice.

33

- 34 2. **Recall Strategy.** A recall strategy shall be implemented by the MAH
35 consistent with the Risk Management Plan of the HUP establishment,
36 Republic Act (RA) No. 6969, otherwise known as the “Toxic Substances
37 and Hazardous and Nuclear Wastes Control Act of 1999”, and its
38 implementing rules and regulations on the storage, transport and final
39 disposal of expired, banned, obsolete, rejected, recalled and/or out of
40 specification/s formulated HUPs and active ingredients. The strategy shall
41 contain the following elements:

- 42
- 43 a. Depth of Recall, including distribution level
- 44 b. Recall Communications containing the identified list of
45 establishments as per distribution records to be contacted and
46 contents of communications
- 47 c. Recall operation instructions and corresponding timelines of
48 completion
- 49 d. Recall status reporting of MAH to FDA, specifying the frequency
50 of submission
- 51 e. Disposal strategy

1
2 3. **Communication Activities.** Communication activities shall be undertaken
3 by the FDA and the MAH to protect the public.
4

- 5 a. The MAH shall issue a notice within thirty (30) days upon
6 effectivity of the issuance to all concerned parties, including but
7 not limited to establishments involved in the supply chain, pest
8 control operators, and the general public. A shorter period may be
9 determined upon the order of the FDA. For the recall of HUPs for
10 consumer use, a notice to the general public shall be required.
11

12 Notices shall be written in clear and easy-to-understand language,
13 and in a manner which urges a consumer to act on or participate in
14 the recall. Notices shall not be written in any manner whatsoever
15 which downplays the hazards associated with the recall. The
16 minimum information required for communications shall follow
17 Annex B of FC No. 2016-012 and its future amendments.
18

- 19 b. A copy of the notice and the communication plan shall be
20 furnished by the MAH to the FDA no later than three (3) days
21 from its publication. The FDA, based on its review, may order the
22 MAH to improve the communication plan and its implementation.
23

- 24 c. The FDA shall not be precluded from issuing public health
25 warnings or advisories on products subject for recall and for
26 products and establishments found to be in violation of these
27 Guidelines.
28

29 The FDA may likewise share the notice issued by the MAH as
30 product recall alerts or advisories, as appropriate.
31

- 32 i. For the recall of HUPs for consumer use, the FDA shall share
33 the notice to the public in its website and other social media
34 platforms and, as far as practicable, through media alerts.
35
36 ii. For the recall of HUPs for professional use, the FDA shall
37 share the notice to licensed pest control operators.
38
39 iii. Other channels may be utilized by the FDA to extend the
40 dissemination of the safety information to consumers,
41 applicators, other handlers, and the public.
42

- 43 d. Should the MAH fail to issue a notice to concerned parties within
44 thirty (30) days of the effectivity of the issuance of the updated list
45 of banned and/or restricted pesticides and ingredients in HUPs, the
46 FDA shall issue an Advisory to the general public for affected
47 products existing in its registry.
48

49 **D. Prohibited Acts.** The following activities shall be prohibited:
50

- 1 1. The manufacture, trade, distribution, sale, offer for sale, advertisement, and
2 promotion of an HUP which contains a banned pesticide or ingredient in
3 HUP.
- 4 2. The manufacture, trade, distribution, sale, offer for sale, advertisement, and
5 promotion of an HUP which contains a restricted pesticide or ingredient in
6 HUP beyond its allowable restrictions or conditions of use.
- 7 3. Failure to conduct and completely implement the product recall strategy
8 within the timelines prescribed for products under Section IV.F. and Section
9 V.C. of this Circular.
- 10 4. The over- the-counter sale and/or offer for sale to the general public of
11 HUPs which are solely intended for Professional use.
- 12 5. Failure to submit a notarized letter and declaration statement under Section
13 IV. H.

14 15 16 **VI. PENALTY CLAUSE**

17
18 Any person found in violation of this Circular shall be deemed a violation of Republic Act
19 No. 3720 as amended by Republic Act No. 9711 and shall be penalized accordingly
20 following the Uniform Rules of Procedures laid down under Book III of the Implementing
21 Rules and Regulations of Republic Act No. 9711.
22
23

24 **VII. REPEALING CLAUSE**

25
26 This Circular effectively repeals FC No. 2017-005, entitled, “List of Banned Pesticides” and
27 FC No. 2017-015, “Adoption of the ASEAN Cosmetic Directive (ACD) Annexes II and VI
28 as Standards for Household/Urban Pesticides (HUP)”. Further, FC No. 2016-012, entitled,
29 “Guidelines on Product Recall”, as it applies for the affected products of this Circular, is
30 hereby amended. All other administrative issuances, circulars and memoranda and other
31 regulations inconsistent with this Circular are hereby withdrawn, repealed and/or revoked
32 accordingly.
33
34

35 **VIII. SEPARABILITY CLAUSE**

36
37 If any part, term of provision of this Circular shall be declared invalid or unenforceable, the
38 validity or enforceability of the remaining portions or provisions shall not be affected and
39 this Circular shall be construed as if it did not contain the particular invalid or unenforceable
40 part, term, or provision.
41
42

43 **IX. EFFECTIVITY**

44
45 This Circular shall take effect fifteen (15) days after its publication in a newspaper of general
46 circulation and filing with the University of the Philippines Law Center Office of the
47 National Administrative Register.
48
49
50
51

DR. SAMUEL A. ZACATE

1
2
3
4
5
6
7
8
9
10
11
12

DRAFT

1
2
3
4

ANNEX A
List of ingredients and mixtures not allowed to form part of HUPs
(Banned Pesticides and Ingredients in HUPs)

Name of Ingredient/Mixture	Standard/Reference
I. Pesticide	
1. 1-Naphthylthiourea (ANTU)	FPA Pesticide Circular No. 04 s. 1989
2. 2,4,5-T	FPA Pesticide Circular No. 04 s. 1989
3. 2-Fluoroacetamide (1081)*	FPA Pesticide Circular No. 04 s. 1989
4. Aldrin	FPA Pesticide Circular No. 04 s. 1989
5. Brestan Organotin	FPA Pesticide Circular No. 04 s. 1989
6. Azinphos Ethyl	FPA Pesticide Circular No. 04 s. 1989
7. Chlordane	FPA Pesticide Resolution No. 01 s. 1999
8. Chlorodimeform	FPA Pesticide Circular No. 04 s. 1989
9. Copper (II) Acetoarsenite (Paris Green)	FPA Pesticide Circular No. 04 s. 1989
10. Dibromochloropropane (DBCP)	FPA Pesticide Circular No. 04 s. 1989
11. Dichlorodiphenyltrichloroethane (DDT)	FPA Board Resolution No. 04 s. 2005
12. Dieldrin	FPA Pesticide Circular No. 04 s. 1989
13. Elemental Phosphorus	FPA Pesticide Circular No. 04 s. 1989
14. (White & Yellow)	
15. Endosulfan*	FPA Board Resolution No. 01, s. 2015
16. Endrin	FPA Pesticide Circular No. 04 s. 1989
17. EPN	FPA Pesticide Circular No. 04 s. 1989
18. Ethylene Bromide (EDB)	FPA Pesticide Circular No. 04 s. 1989
19. Gophacide	FPA Pesticide Circular No. 04 s. 1989
20. Hexachlorocyclohexane (HCH)/ Beta-hexachlorocyclohexane (BHC)	FPA Pesticide Circular No. 04 s. 1989
21. Heptachlor	FPA Pesticide Circular No. 04 s. 1989
22. Leptophos	FPA Pesticide Circular No. 04 s. 1989
23. Mercuric Fungicides	FPA Pesticide Circular No. 04 s. 1989
24. Nitrofen	FPA Pesticide Circular No. 04 s. 1989
25. Organotin Compounds	FPA Pesticide Circular No. 04 s. 1989
26. Parathion-Ethyl	FPA Pesticide Circular No. 04 s. 1989
27. Parathion-Methyl	FPA Pesticide Circular No. 04 s. 1989
28. Sodium fluoroacetate	FPA Pesticide Circular No. 04 s. 1989
29. Strychnine	FPA Pesticide Circular No. 04 s. 1989
30. Thallium Sulfate	FPA Pesticide Circular No. 04 s. 1989
31. Toxaphene/Campechlor	FPA Pesticide Circular No. 04 s. 1989
32. Triphenyltin	FPA Pesticide Circular No. 04 s. 1989
33. Actinolite asbestos*	Rotterdam Treaty
34. Alachlor*	Rotterdam Treaty
35. Aldicarb*	Rotterdam Treaty
36. Anthophyllite asbestos*	Rotterdam Treaty
37. Azinphos-methyl*	Rotterdam Treaty
38. Binapacryl	Rotterdam Treaty
39. Captafol	Rotterdam Treaty
40. Carbofuran*	Rotterdam Treaty

41. Chlorobenzilate*	Rotterdam Treaty
42. Commercial octabromodiphenyl ether (including Hexabromodiphenyl ether and Heptabromodiphenyl ether)*	Rotterdam Treaty
43. Commercial pentabromodiphenyl ether (including tetrabromodiphenyl ether and pentabromodiphenyl ether)*	Rotterdam Treaty
44. Crocidolite asbestos*	Rotterdam Treaty
45. Decabromodiphenyl ether (decaBDE)*	Rotterdam Treaty
46. Dinitro-ortho-cresol (DNOC) and its salts (such as ammonmm salt, potassium salt and sodium salt)*	Rotterdam Treaty
47. Dinoseb and its salts and esters	Rotterdam Treaty
48. Dustable powder formulations containing a combination of benomyl at or above 7%, carbofuran at or above 10% and thiram at or above 15%	Rotterdam Treaty
49. Ethylene dichloride	Rotterdam Treaty
50. Ethylene oxide*	Rotterdam Treaty
51. Fluoroacetamide*	Rotterdam Treaty
52. HCH (mixed isomers)*	Rotterdam Treaty
53. Hexabromocyclododecane*	Rotterdam Treaty
54. Hexachlorobenzene*	Rotterdam Treaty
55. Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and alkyloxyalkyl and aryl mercury compounds*	Rotterdam Treaty
56. Methamidophos*	Rotterdam Treaty
57. Methyl-Parathion (emulsifiable concentrates at or above 19.5% active ingredient and dusts at or above (EC) at or above 1.5% active ingredient)	Rotterdam Treaty
58. Monocrotophos*	Rotterdam Treaty
59. Pentachlorophenol and its salts and esters*	Rotterdam Treaty
60. Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls*	Rotterdam Treaty
61. Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds*	Rotterdam Treaty
62. Phorate*	Rotterdam Treaty
63. Phosphamidon (Soluble liquid formulations of the substance that exceed 1000 g active ingredient/l)	Rotterdam Treaty
64. Polybrominated Biphenyls (PBBs)*	Rotterdam Treaty
65. Polychlorinated Biphenyls (PCBs)*	Rotterdam Treaty
66. Polychlorinated Terphenyls (PCTs)*	Rotterdam Treaty
67. Short-chain chlorinated paraffins (SCCP)*	Rotterdam Treaty

68. Tetraethyl lead*	Rotterdam Treaty
69. Tetramethyl lead*	Rotterdam Treaty
70. Tremolite asbestos*	Rotterdam Treaty
71. Tributyl tin compounds*	Rotterdam Treaty
72. Trichlorfon*	Rotterdam Treaty
73. Tris(2,3-dibromopropyl) phosphate*	Rotterdam Treaty
74. Alpha hexachlorocyclohexane*	Stockholm Treaty
75. Beta hexachlorocyclohexane*	Stockholm Treaty
76. Chlordecone	Stockholm Treaty
77. Decabromodiphenyl ether (commercial mixture, c-decaBDE)*	Stockholm Treaty
78. Dicofol*	Stockholm Treaty
79. Hexabromobiphenyl*	Stockholm Treaty
80. Hexabromodiphenyl ether and heptabromodiphenyl ether*	Stockholm Treaty
81. Hexabromocyclododecane (HBCDD)*	Stockholm Treaty
82. Hexachlorobenzene (HCB)*	Stockholm Treaty
83. Hexachlorobutadiene*	Stockholm Treaty
84. Lindane	Stockholm Treaty
85. Mirex	Stockholm Treaty
86. Octabromodiphenyl ether	Stockholm Treaty
87. Pentachlorobenzene*	Stockholm Treaty
88. Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds*	Stockholm Treaty
89. Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF)	Stockholm Treaty
90. Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds*	Stockholm Treaty
91. Polychlorinated biphenyls (PCB)*	Stockholm Treaty
92. Polychlorinated dibenzo-p-dioxins (PCDD)*	Stockholm Treaty
93. Polychlorinated dibenzofurans (PCDF)*	Stockholm Treaty
94. Polychlorinated naphthalenes*	Stockholm Treaty
95. Short-chain chlorinated paraffins (SCCPs)*	Stockholm Treaty
96. Technical endosulfan and its related isomers*	Stockholm Treaty
97. Tetrabromodiphenyl ether and pentabromodiphenyl ether	Stockholm Treaty
98. 1,1,1-Trichloroethane*	Montreal Treaty
99. Bromochloromethane*	Montreal Treaty
100. Carbon tetrachloride*	Montreal Treaty
101. Chlorofluorocarbons*	Montreal Treaty
102. Halons*	Montreal Treaty
103. Hydrobromofluorocarbons (HBFCs)*	Montreal Treaty
104. Hydrochlorofluorocarbons (HCFCs)*	Montreal Treaty
105. Hydrofluorocarbons*	Montreal Treaty

106. Methyl bromide*	Montreal Treaty
107. Other fully halogenated CFCs*	Montreal Treaty
108. Chlorpyrifos*	FDA Circular No. 2018-008
109. Dichlorvos*	FDA Circular No. 2018-008
110. Substances included in Annex II of the ASEAN Cosmetic Directive except substances intended to be the AI of the HUP formulation subject to existing restrictions indicated in Annex B of this Circular, if any*	FDA Circular No. 2017-015

1
2
3
4
5
6
7
8

*New additions to the previous “List of Banned Pesticides” based on FDA Circular No. 2017-005

DRAFT

1
2
3
4
5
6

ANNEX B

List of ingredients and mixtures not allowed to form part of HUPs unless under the permitted restrictions and/or allowable conditions of use (Restricted Pesticides and Ingredients in HUPs)

Name of Ingredient/Mixture Pesticide	Conditions for Use	Standard/Reference
Brodifacoum Difethialone Bromadiolone	1. The product shall be sold with tamper-resistant bait stations and labelled as “indoors; or indoors and outdoors within 50 feet or 15 meters of buildings”.	US Environmental Protection Agency, DOH AO No. 2019-0010
Difenacoum	2. The rodenticide shall be in a form of block or paste. Mouse and rat poisons in pellet form are banned. 3. Products may contain no more than 1 pound or 0.5 kilogram of rodenticide bait. 4. The product shall only be distributed to or sold directly to pest control operators (PCOs) and not to be sold in “consumer” stores, including drug stores, grocery stores, hardware stores, club stores, and similar retail outlets. 5. Products containing these active ingredients shall only be available for commercial use and for residential use by PCO.	
Naphthalene	Mothball shall be: 1. Sold in sachets with a tear- and moisture-resistant wrapping material 2. Packaged in plastic containers that allow for volatilization, but which would prohibit direct contact with naphthalene. 3. Formulated into larger sized cake or block products (minimum of 2.5 inches in diameter). This must also be enclosed in plastic, metal or cardboard packaging while in use.	US Environmental Protection Agency
Active Ingredient included in Annex II of the ASEAN Cosmetic Directive	May be allowed subject to the submission of a risk assessment or its resubmission if any changes/updates were identified, subject to evaluation during product registration	ASEAN Cosmetic Directive

Substances included in Annex III of the ASEAN Cosmetic Directive	Restrictions indicated on the maximum concentration, limitations and requirements, and conditions of use and warnings which must be printed on the label shall apply	ASEAN Cosmetic Directive
Colorants included in Annex IV of the ASEAN Cosmetic Directive		ASEAN Cosmetic Directive
Preservatives included in Annex VI of the ASEAN Cosmetic Directive		ASEAN Cosmetic Directive
Chemicals restricted under Annex XVII to REACH Regulation	Restrictions indicated in the annex to REACH regulation shall apply.	Regulation (EC) No 1907/2006

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

DRAFT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

ANNEX C

**List of Treaties, Conventions and Protocols, Internationally-accepted Standards, and
Local Regulatory Agencies Recognized by the FDA**

1. Montreal Protocol on Substances That Deplete the Ozone Layer
2. Rotterdam Convention on the Prior Informed Consent Procedure for Certain
3. Hazardous Chemicals and Pesticides in International Trade
4. Stockholm Convention on Persistent Organic Pollutants
5. Fertilizer and Pesticide Authority (FPA)
6. World Health Organization (WHO)
7. Food and Agriculture Organization of the United Nations (FAO)
8. U.S. Environmental Protection Agency (EPA)
9. ASEAN Cosmetic Directive (ACD)
10. European Union (EU)
11. International Agency for Research on Cancer (IARC)
12. International Organization for Standardization (ISO)
13. Organization for Economic Co-operation and Development (OECD)
14. Basel Convention on the Control of Transboundary Movements of Hazardous Wastes
and Their Disposal

Information Sheet on the Banned and Restricted Pesticides and Ingredients in HUPs

This document was prepared to provide context on recommendations and decisions made on pesticides and ingredients in HUPs listed in Annexes A and B, intended for the information of all concerned stakeholders. Please note that this information sheet does not form part of the FDA Circular.

A. Banned Pesticides

1. Fertilizer and Pesticide Authority (FPA)

Consistent with FPA Board Resolution No. 01, s. 2015, the Board resolved to ban *Endosulfan* and its related isomers after due consideration and appreciation of its risks to human health and the environment.

2. Rotterdam Convention

The following chemicals listed in Annex III categorized as Pesticide in the Rotterdam Convention for health and environmental reasons are have been included following updates to the Convention. These will be in addition to the chemicals included in FDA Circular No. 2017-005:

- 2.1 *Alachlor*
- 2.2 *Aldicarb*
- 2.3 *Anthophyllite asbestos*
- 2.4 *Azinphos-methyl*
- 2.5 *Carbofuran*
- 2.6 *Chlorobenzilate*
- 2.7 *Commercial octabromodiphenyl ether (including Hexabromodiphenyl ether and Heptabromodiphenyl ether)*
- 2.8 *Commercial pentabromodiphenyl ether (including tetrabromodiphenyl ether and pentabromodiphenyl ether)*
- 2.9 *Crocidolite asbestos*
- 2.10 *Decabromodiphenyl ether (decaBDE)*
- 2.11 *Dinitro-ortho-cresol (DNOC) and its salts (such as ammonmm salt, potassium salt and sodium salt)*
- 2.12 *Ethylene oxide*
- 2.13 *Fluoroacetamide*
- 2.14 *HCH (mixed isomers)*
- 2.15 *Hexabromocyclododecane*
- 2.16 *Hexachlorobenzene*
- 2.17 *Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and alkyloxyalkyl and aryl mercury compounds*
- 2.18 *Methamidophos*
- 2.19 *Monocrotophos*
- 2.20 *Pentachlorophenol and its salts and esters*
- 2.21 *Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls*
- 2.22 *Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds*
- 2.23 *Phorate*
- 2.24 *Polybrominated Biphenyls (PBBs)*
- 2.25 *Polychlorinated Biphenyls (PCBs)*
- 2.26 *Polychlorinated Terphenyls (PCTs)*

- 1 2.27 *Short-chain chlorinated paraffins (SCCP)*
- 2 2.28 *Tetraethyl lead*
- 3 2.29 *Tetramethyl lead*
- 4 2.30 *Tremolite asbestos*
- 5 2.30 *Tributyl tin compounds*
- 6 2.31 *Trichlorfon*
- 7 2.32 *Tris(2,3-dibromopropyl) phosphate*

9 **3. Stockholm Convention**

10 The following chemicals listed as Persistent Organic Pollutants (POPs) under the Stockholm
11 Convention have been recognized as causing adverse effects on humans and the ecosystem:

- 12
- 13 3.1 *Alpha hexachlorocyclohexane*
- 14 3.2 *Beta hexachlorocyclohexane*
- 15 3.3 *Decabromodiphenyl ether (commercial mixture, c-decaBDE)*
- 16 3.4 *Dicofol*
- 17 3.5 *Hexabromobiphenyl*
- 18 3.6 *Hexabromodiphenyl ether and heptabromodiphenyl ether*
- 19 3.7 *Hexabromocyclododecane (HBCDD)*
- 20 3.8 *Hexachlorobutadiene (HCBD)*
- 21 3.9 *Hexachlorobutadiene*
- 22 3.10 *Pentachlorobenzene*
- 23 3.11 *Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds*
- 24 3.12 *Perfluorooctane sulfonic acid (PFOS), its salts and*
25 *perfluorooctane sulfonyl fluoride (PFOSF)*
- 26 3.13 *Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds*
- 27 3.14 *Polychlorinated biphenyls (PCB)**
- 28 3.15 *Polychlorinated dibenzo-p-dioxins (PCDD)*
- 29 3.16 *Polychlorinated dibenzofurans (PCDF)*
- 30 3.17 *Polychlorinated naphthalenes*
- 31 3.18 *Short-chain chlorinated paraffins (SCCPs)*
- 32 3.19 *Technical endosulfan and its related isomers*
- 33 3.20 *Tetrabromodiphenyl ether and pentabromodiphenyl ether*

35 **4. Montreal Protocol**

36 On 1987, an agreement through the Montreal Protocol was signed and enforced in 1989 to protect
37 the Earth's ozone layer through a phase-out plan which includes both the production and
38 consumption of ozone-depleting substances. Below were the identified substances
39 correspondingly banned:

- 40 4.1 *1,1,1-Trichloroethane*
- 41 4.2 *Bromochloromethane*
- 42 4.3 *Carbon tetrachloride*
- 43 4.4 *Chlorofluorocarbons*
- 44 4.5 *Halons*
- 45 4.6 *Hydrobromofluorocarbons (HBFCs)*
- 46 4.7 *Hydrochlorofluorocarbons (HCFCs)*
- 47 4.8 *Hydrofluorocarbons*
- 48 4.9 *Methyl bromide*
- 49 4.10 *Other fully halogenated CFCs*

51 **B. Other pesticides previously banned by the FDA**

1 On 2018, FDA Circular 2018-008 entitled “*Ban of Chlorpyrifos and Dichlorvos for Use in*
2 *Household/Urban Pesticide Products, and Household/Urban Pesticide Products Containing*
3 *Chlorpyrifos and Dichlorvos as Active Ingredients*” was issued to impose a ban on Chlorpyrifos
4 and Dichlorvos which were linked to cause damaging effects to humans, animals and the
5 environment.

6 7 **C. Restricted pesticides**

8 9 **1. Second-Generation Anticoagulants**

10 While second-generation anticoagulants are more likely to be toxic in a single feeding than other
11 products, time-to-death takes several days. Thus, this allows rodents to feed multiple times
12 before death, resulting in carcasses which contain residues that may be more than the lethal dose.
13 Predators and scavengers that feed on such carcasses may be in turn poisoned. Hence, US EPA
14 made several announcements¹⁻³ on the banning of mouse and rat poisons in pellet form and
15 provided guidelines to ensure that safer rodenticide products are available to consumers for use.

16
17 In view of this, products containing the following active ingredients will hence adhere to the set
18 restrictions specified below:

19 *1.1 Brodifacoum*

20 *1.2 Difethialone*

21 *1.3 Bromadiolone*

22 *1.4 Difenacoum*

23
24 Restrictions:

- 25 1. The product shall be sold with tamper-resistant⁴ bait stations and labelled as
26 “indoors; or indoors and outdoors within 50 feet or 15 meters of buildings”.
- 27 2. The rodenticide shall be in a form of block or paste. Mouse and rat poisons
28 in pellet form are banned.
- 29 3. Products may contain no more than 1 pound or 0.5 kilogram of rodenticide
30 bait.
- 31 4. The product shall only be distributed to or sold to pest control operators
32 (PCOs) and not to be sold in “consumer” stores, including drug stores, grocery
33 stores, hardware stores, club stores, and similar retail outlets.
- 34 5. Products containing these active ingredients shall only be available for
35 commercial use and for residential use by PCOs.

36 37 **2. Naphthalene**

38 Naphthalene is a white, crystalline solid with a characteristic odor. It is used indoors as a moth
39 repellent, and placed in closed drawers, closets, and other storage areas.

40
41 In humans, hemolytic anemia is the most common manifestation of naphthalene toxicity.
42 Prominently, individuals deficient in Glucose-6-phosphate dehydrogenase (G6PD) are more
43 susceptible to the effects of naphthalene. In the US, the EPA does not permit the marketing of
44 loose mothballs, thus requiring the containerisation of flakes and loose mothballs to reduce the
45 risk of ingestion by children.

46
47 Locally, the National Poison Management and Control Center had recorded fifteen (15) cases on
48 moth ball poisoning referred via hotline and two (2) cases admitted at Philippine General
49 Hospital for the year 2019-2023. In order to prevent further incidents, companies should take
50 product stewardship steps (US EPA RED)⁵ to ensure that products are packaged in a way that

1 would discourage children from eating the product. Other formulation and packaging types may
2 be considered. The following restrictions will apply for this product:

3
4 **Restrictions:**

5 The products shall be -

- 6 1. Sold in sachets with a tear- and moisture-resistant wrapping material
- 7 2. Packaged in plastic containers that allow for volatilization, but which would prohibit direct
8 contact with naphthalene.
- 9 3. Formulated into larger sized cake or block products (minimum of 2.5 inches in diameter).
10 This must also be enclosed in plastic, metal or cardboard packaging while in use.

11
12 **D. Adoption of ASEAN Cosmetic Directive (ACD)**

13 The FDA decision to include the ingredients and their restriction in ACD Annexes II and VI
14 through the FDA Circular No. 2017-015 was made after careful evaluation of their toxicological
15 data and in consideration of the aggregate exposures of consumers to the identified ingredients.
16

17 Upon further review of the said adoption, the ban imposed on ingredients included Annex II is
18 retained, while substances intended to be the AI of HUP formulations may be allowed subject to
19 existing restrictions and evaluation during registration. Meanwhile, ingredients included in
20 Annexes III, IV and VI are recommended to be re-categorized as restricted ingredients in the
21 “List of Banned and Restricted Pesticides and Ingredients in HUPs” which shall be used in
22 accordance with the identified conditions set in the respective annexes.
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

1 **References:**

- 2
- 3 1. US EPA. Restrictions on Rodenticide Products,
- 4 [https://www.epa.gov/rodenticides/restrictions-rodenticide-](https://www.epa.gov/rodenticides/restrictions-rodenticide-products#:~:text=Second%2Dgeneration%20anticoagulants%20registered%20in,is%20toxic%20in%20other%20ways.)
- 5 [products#:~:text=Second%2Dgeneration%20anticoagulants%20registered%20in,is%20toxi](https://www.epa.gov/rodenticides/restrictions-rodenticide-products#:~:text=Second%2Dgeneration%20anticoagulants%20registered%20in,is%20toxic%20in%20other%20ways.)
- 6 [c%20in%20other%20ways.](https://www.epa.gov/rodenticides/restrictions-rodenticide-products#:~:text=Second%2Dgeneration%20anticoagulants%20registered%20in,is%20toxic%20in%20other%20ways.)
- 7 2. US EPA. Rodent Control Pesticide Safety Review,
- 8 <https://www.epa.gov/rodenticides/rodent-control-pesticide-safety-review>
- 9 3. US EPA. “Mouse and rat poisons in pellet form banned”,
- 10 [https://www.epa.gov/safepestcontrol/mouse-and-rat-poisons-pellet-form-](https://www.epa.gov/safepestcontrol/mouse-and-rat-poisons-pellet-form-banned#:~:text=Products%20marketed%20to%20residential%20consumers%20may%20contain%20no%20more%20than,bromadiolone%2C%20difenacoum%2C%20and%20difethi)
- 11 [banned#:~:text=Products%20marketed%20to%20residential%20consumers%20may%20co](https://www.epa.gov/safepestcontrol/mouse-and-rat-poisons-pellet-form-banned#:~:text=Products%20marketed%20to%20residential%20consumers%20may%20contain%20no%20more%20than,bromadiolone%2C%20difenacoum%2C%20and%20difethi)
- 12 [ntain%20no%20more%20than,bromadiolone%2C%20difenacoum%2C%20and%20difethi](https://www.epa.gov/safepestcontrol/mouse-and-rat-poisons-pellet-form-banned#:~:text=Products%20marketed%20to%20residential%20consumers%20may%20contain%20no%20more%20than,bromadiolone%2C%20difenacoum%2C%20and%20difethi)
- 13 [alone.](https://www.epa.gov/safepestcontrol/mouse-and-rat-poisons-pellet-form-banned#:~:text=Products%20marketed%20to%20residential%20consumers%20may%20contain%20no%20more%20than,bromadiolone%2C%20difenacoum%2C%20and%20difethi)
- 14 4. US EPA. PRN 94-7: Label Improvement Program for the Revision of Use Directions for
- 15 Commensal Rodenticides and Statement of the Agency's Policies on the Use of Rodenticide
- 16 Bait Stations, [https://www.epa.gov/pesticide-registration/prn-94-7-label-improvement-](https://www.epa.gov/pesticide-registration/prn-94-7-label-improvement-program-revision-use-directions-commensal)
- 17 [program-revision-use-directions-commensal](https://www.epa.gov/pesticide-registration/prn-94-7-label-improvement-program-revision-use-directions-commensal)
- 18 5. US EPA (2008) Reregistration Eligibility Decision (RED) for Naphthalene
- 19
- 20