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Pesticide Maximum Residue Limit (MRL) Legislation in Thailand

Report Categories:

Sanitary/Phytosanitary/Food Safety

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Report Highlights:

The report is the pesticide maximum residue limit (MRL) legislation in Thailand. The list of banned pesticides is also updated as of April 30, 2015.

General Information:

Pesticide Maximum Residue Limit (MRL) Legislation in Thailand

The Thai Food and Drug Administration (FDA) under the Ministry of Public Health (MOPH) has established the maximum limit of pesticide residues in foods as per the Ministry of Public Health (MOPH) Notification regarding Food with Toxic Residues B.E. 2554 (2011). Under this regulation (attached), all fruits (domestic and imported) have to be free of pesticide residues except for those found within Maximum Residue Limit (MRL) as listed under Schedule 1 and Extraneous Maximum Residue Limit (EMRL) in Schedule 2 of the regulation.

If the pesticide is categorized as hazardous substance Category 4 governed by the Hazardous Substance Act B.E. 2535 (1992), a zero tolerance is applied. (Note: There are exceptions made for aldrin, dieldrin, chlordane, DDT, endrin, and heptachlor listed in EMRL as stated above). As of April 30, 2015, there are 99 agricultural hazardous substances on the Category 4 hazardous substances list as provided in Table 1 below.

Also if a pesticide is not listed in Schedule 1 of the Ministry of Public Health (MOPH) Notification regarding Food with Toxic Residues B.E. 2554 (2011) **AND IS NOT** on the hazardous substance Category 4 list, CODEX's MRLs can be used as the reference.

Table 1: List of Pesticides Categorized as Hazardous Substance Category 4 (as of April 30, 2015)

1. aldrin
2. aminocarb
3. 4-aminodiphenyl
4. amitrole
5. aramite
6. asbestos - amosite
7. azinphos - ethyl
8. azinphos - methyl
9. benzidine
10. beta - HCH 1,3,5/2,4,6 - hexachloro- cyclohexane
11. BHC or HCH (1,2,3,4,5,6 - hexachloro-cyclohexane)
12. binapacryl
13. bis chloromethyl ether
14. bromophos
15. bromophos-ethyl
16. cadmium and cadmium compounds
17. calcium arsenate
18. captafol
19. carbon tetrachloride
20. chlordane
21. chlordecone

22. chlordimeform
23. chlorobenzilate
24. chlorophenols
25. chlorthiophos
26. copper arsenate hydroxide
27. cycloheximide
28. cyhexatin
29. daminozide
30. DBCP (1,2-dibromo-3-chloropropane)
31. DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl ethane))
32. demephion
33. demeton
34. o-dichlorobenzene
35. dieldrin
36. dimefox
37. dinoseb
38. dinoterb
39. disulfoton
40. DNOC (4,6-dinitro-o-cresol)
41. EDB (1,2-dibromoethane)
42. endrin
43. ethyl hexyleneglycol (ethyl hexane diol)
44. ethylene dichloride
45. ethylene oxide (1,2-epoxyethane)
46. fensulfothion
47. fentin
48. fluoroacetamide
49. fluoroacetate sodium
50. fonofos
51. heptachlor
52. hexachlorobenzene
53. lead arsenate
54. leptophos
55. lindane (>99% gamma-HCH หรือ gamma- BHC)
56. MCPB [4-(4-chhloro-o-tolyloxy) butyric acid]
57. mecoprop
58. mephosfolan
59. mercury compounds
60. mevinphos
61. MGK repellent - 11
62. mirex
63. monocrotophos
64. naphthylamine
65. 4-nitrodiphenyl
66. nitrofen
67. parathion

68. Paris green
69. pentachlorophenolate sodium หรือ pentachlorophenoxide sodium
70. pentachlorophenol
71. phenothiol
72. phorate
73. phosphamidon
74. phosphorus
75. polybrominated biphenyls, PBBs
76. polychlorinated triphenyls, PCTs
77. prothoate
78. pyrinuron (piriminil)
79. safrole
80. schradan
81. sodium arsenite
82. sodium chlorate
83. strobane (polychloroterpenes)
84. sulfotep
85. 2,4,5-T ([2,4,5-trichlorophenoxy] acetic acid)
86. 2,4,5-TCP (2,4,5-trichlorophenol)
87. TDE or DDD [1,1-dichloro-2,2-bis (4-chlorophenyl) ethane]
88. TEPP (tetraethyl pyrophosphate)
89. 2,4,5-TP ((+)-2-[2,4,5-trichlorophenoxy] propionic acid)
90. thallium sulfate
91. toxaphene or camphechlor
92. tri (2,3-dibromopropyl) phosphate
93. vinyl chloridemonomer (monochloroethene)
94. methamidophos
95. parathion methyl
96. endosulfan
97. dicrotophos
98. EPN or O-ethyl O-4-nitrophenyl phenylphosphonothioate
99. chlorophenol

End of the Report.