Order for Enforcement of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

(Cabinet Order No. 138 of March 29, 2000)

Last revised by: Cabinet Order No. 328 of October 27, 2004

The Cabinet shall establish this Cabinet Order based on the provisions of Article 2, paragraph 2, paragraph 3, paragraph 5, and paragraph 6 and Article 21 of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (Act No. 86 of 1999).

Article 1 (Class I Designated Chemical Substances)

Class I Designated Chemical Substances set forth in Article 2,
paragraph 2 of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (hereinafter referred to as the “Act”) shall be as specified in appended table 1.

**Article 2 (Class II Designated Chemical Substances)**

Class II Designated Chemical Substances set forth in Article 2, paragraph 3 of the Act shall be as specified in appended table 2.

**Article 3 (Types of Business)**

Types of business specified by Cabinet Order as set forth in Article 2, paragraph 5 of the Act shall be as follows:

(i) Metal mining
(ii) Crude petroleum and natural gas production
(iii) Manufacturing
(iv) Production, transmission and distribution of electricity
(v) Manufacture of gas
(vi) Heat supply
(vii) Sewerage
(viii) Railway transport
(ix) Warehousing (limited to the business of keeping agricultural products or storing gas or liquid in storage tanks)
(x) Petroleum wholesale trade
(xi) Iron scrap wholesale trade (limited to the business of collecting substances enclosed in an automobile air-conditioner or removing an automobile air-conditioner that has been installed in an automobile body)
(xii) Motor vehicles wholesale trade (limited to the business of collecting substances enclosed in an automobile air-conditioner)
(xiii) Fuel stores
(xiv) Laundries
(xv) Photographic studios
(xvi) Automobile maintenance services
(xvii) Machinery repair shops
(xviii) Commodity inspection services
(xix) Surveyor certification (excluding general surveying certification)
(xx) Domestic waste disposal business (limited to waste disposal business)
(xxi) Industrial waste disposal business (including special controlled industrial waste-disposal businesses)
(xxii) Institution of higher education (including attached facilities and excluding one only pertaining to humanities)
Article 4 (Requirements for a Business Operator Handling a Class I Designated Chemical Substance)

Requirements specified by Cabinet Order as set forth in parts of the Act other than the respective items of Article 2, paragraph 5 of the Act shall be as follows:

(i) The person shall fall under any of the following categories:

(a) The natural or juridical person owns a place of business where the amount of any Class I Designated Chemical Substance handled in the course of business activities in the current fiscal year (including substances contained in products [which means products prescribed in Article 2, paragraph 5, item 1 of the Act: the same shall apply in (b)] handled in the course of business activities in the current fiscal year) that is not a Specific Class I Designated Chemical Substance (which means any of the Class I Designated Chemical Substances set forth in item 1 of appended table 1; the same shall apply in (b)) (where such Class I Designated Chemical Substance is any of those listed in 1) to 16) inclusive of below, such amount shall be the amount of the substances respectively specified therein contained in said Class I Designated Chemical Substance; referred to as "Amount of a Class I Designated Chemical Substance" in the following Article) is one ton or more:

1) Class I Designated Chemical Substance set forth in item 1 of appended table 1—Zinc
2) Class I Designated Chemical Substance set forth in item 25 of appended table 1—Antimony
3) Class I Designated Chemical Substance set forth in item 64 of appended table 1—Silver
4) Class I Designated Chemical Substance set forth in item 68 of appended table 1—Chromium
5) Class I Designated Chemical Substance set forth in item 100 of appended table 1—Cobalt
6) Class I Designated Chemical Substance set forth in item 108 of appended table 1—Cyan
7) Class I Designated Chemical Substance set forth in item 175 of appended table 1—Mercury
8) Class I Designated Chemical Substance set forth in item 176 of appended table 1—Tin
9) Class I Designated Chemical Substance set forth in item 178 of appended table 1—Selenium
10) Class I Designated Chemical Substance set forth in item 207 of appended...
table 1—Copper
11) Class I Designated Chemical Substance set forth in item 230 of appended table 1—Lead
12) Class I Designated Chemical Substance set forth in item 243 of appended table 1—Barium
13) Class I Designated Chemical Substance set forth in item 283 of appended table 1—Fluorine
14) Class I Designated Chemical Substance set forth in item 304 of appended table 1—Boron
15) Class I Designated Chemical Substance set forth in item 311 of appended table 1—Manganese
16) Class I Designated Chemical Substance set forth in item 346 of appended table 1—Molybdenum

(b) The natural or juridical person owns a place of business where the amount of any Specific Class I Designated Chemical Substance handled in the course of business activities in the current fiscal year (where such Specific Class I Designated Chemical Substance is any of those set forth in 1) to 5) inclusive of below, such amount shall be the amount of the substances respectively specified therein contained in said Specific Class I Designated Chemical Substance; referred to as "Amount of a Specific Class I Designated Chemical Substance" in the following Article) is 0.5 tons or more:
1) Specific Class I Designated Chemical Substance set forth in item 60 of appended table 1—Cadmium
2) Specific Class I Designated Chemical Substance set forth in item 69 of appended table 1—Chromium
3) Specific Class I Designated Chemical Substance set forth in item 232 of appended table 1—Nickel
4) Specific Class I Designated Chemical Substance set forth in item 252 of appended table 1—Arsenic
5) Specific Class I Designated Chemical Substance set forth in item 294 of appended table 1—Beryllium

(c) In the case of a natural or juridical person who engages in a type of business set forth in item 1 or item 2 of the preceding Article, the natural or juridical person has installed a facility specified by an Ordinance of the Ministry of Economy, Trade and Industry set forth in Article 13, paragraph 1 of the Mine Safety Act (Act No. 70 of 1949).

(d) In the case of a natural or juridical person who engages in a type of business set forth in item 7 of the preceding Article, the natural or juridical person has installed a sewage disposal facility.

(e) In the case of a natural or juridical person who engages in a type of business
set forth in item 20 or item 21 of the preceding Article, the natural or juridical person has installed the general waste-disposal facility prescribed in Article 8, paragraph 1 of the Waste Management and Public Cleansing Act (Act No. 137 of 1970) or the industrial waste-disposal facility prescribed in Article 15, paragraph 1 of the same Act.

(f) The natural or juridical person has the specific facility prescribed in Article 2, paragraph 2 of the Act on Special Measures against Dioxins (Act No. 105 of 1999).

(ii) The number of regularly working employees is 21 or more.

Article 5 (Requirements Specified by Cabinet Order as Set Forth in Article 2, Paragraph 5, Item 1 of the Act)

Requirements specified by Cabinet Order as set forth in Article 2, paragraph 5, item 1 of the Act shall be that the percentage of the Amount of a Class I Designated Chemical Substance to the amount of the product is one percent or more or that the percentage of the Amount of a Specific Class I Designated Chemical Substance to the amount of the product is 0.1 percent or more, and that the product does not fall under any of the following items:

(i) A product that does not become a state other than solid nor become powder or granules in the process of handling by the business operator

(ii) A product that is handled with a Class I Designated Chemical Substance enclosed

(iii) A product that is mainly provided for use in the daily lives of general consumers

(iv) Recycled resources (which means recycled resources prescribed in Article 2, paragraph 4 of the Act on the Promotion of Effective Utilization of Resources [Act No. 48 of 1991]; the same shall apply in item 4 of the following Article)

Article 6 (Requirements Specified by Cabinet Order as Set Forth in Article 2, Paragraph 6 of the Act)

Requirements specified by Cabinet Order as set forth in Article 2, paragraph 6 of the Act shall be that the percentage of the amount of a Class II Designated Chemical Substance to the amount of the product (in the case of a Class II Designated Chemical Substance set forth in item 9 of appended table 2, the amount of indium contained therein; in the case of a Class II Designated Chemical Substance set forth in item 44 of the same table, the amount of thallium contained therein; and in the case of a Class II Designated Chemical Substance set forth in item 50 of the same table, the amount of tellurium contained therein) is one percent or more and that the product does not fall under any of the following items:

(i) A product that does not become a state other than solid nor become powder or granules in the process of handling by the business operator
(ii) A product that is handled with a Class II Designated Chemical Substance enclosed
(iii) A product that is mainly provided for use in the daily lives of general consumers
(iv) Recycled resources

**Article 7 (Council, etc. Specified by Cabinet Order)**

The council, etc. that is specified by Cabinet Order shall be the councils, etc. listed in the right column of the following table for the ministers respectively set forth in the left column of the same table:

<table>
<thead>
<tr>
<th>Minister of Health, Labour and Welfare</th>
<th>Pharmaceutical Affairs and Food Sanitation Council</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minister of Economy, Trade and Industry</td>
<td>Chemical Substances Council</td>
</tr>
<tr>
<td>Minister of the Environment</td>
<td>Central Environmental Council</td>
</tr>
</tbody>
</table>

**Article 8 (Amounts of Fees, etc.)**

The amount of the fee set forth in Article 19 of the Act (hereinafter simply referred to as “Fee” in this Article) shall be the fee specified in the following items for the methods of implementation of the disclosure respectively set forth in those items:

(i) Delivery of data output on paper—20 yen per sheet

(ii) Delivery of data copied onto a flexible disk cartridge (limited to one that is 90 millimeters wide and that conforms to the Japanese Industrial Standards X6223; the same shall apply in the following Article)—80 yen per cartridge plus 260 yen per 0.5 megabytes of data

(iii) Delivery of data copied onto an optical disk (limited to one whose data can be reproduced using a reproducing unit for an optical disk that is 20 millimeters in diameter and conforms to the Japanese Industrial Standards X0606 and X6281; the same shall apply in the following Article) 200 yen per disk plus 260 yen per 0.5 megabytes of data (in the case of delivering an optical disk onto which all of the Matters Recorded in the File for the fiscal year pertaining to a disclosure request prescribed in Article 10, paragraph 2 of the Act [hereinafter referred to as a “Disclosure Request”] have been copied, 900 yen per 200 megabytes of data)

(iv) Method of having data copied onto a file in a computer pertaining to use by the person receiving the disclosure, by using an electronic data processing system (which means an electronic data processing system that has connected a computer pertaining to use by the competent minister [including the input-output equipment; hereinafter the same shall apply in this item] and a computer pertaining to use by the person receiving the disclosure by an electric telecommunication line) (limited to cases where a Disclosure Request has been made by using an electronic data processing system prescribed in Article 3, paragraph 1 of the Act on Use of Information and Communications Technology in
Administrative Procedures, etc. [Act No. 151 of 2002] pursuant to the provisions of the same paragraph) 100 yen per case plus 140 yen per 0.5 megabytes of data (in the case of having all of the Matters Recorded in the File for the fiscal year pertaining to a Disclosure Request copied onto a file, 880 yen per 200 megabytes of data)

(2) The fee shall be paid by adhering revenue stamps onto a document stating the matters set forth in the respective items of Article 10, paragraph 2 of the Act; provided, however, that the fee may be paid in cash specified by an ordinance of the competent ministry.

(3) A person who has received disclosure of Matters Recorded in the File may request forwarding of a copy of the Matters Recorded in the File by paying the cost required for the forwarding in addition to the fee. In this case, said cost shall be paid by postal stamps or equivalent vouchers specified by the competent minister.

Article 9 (Method of Notification or Request by Using a Magnetic Disk)

Pursuant to the provisions of an ordinance of the competent ministry, a person who intends to give notification under Article 5, paragraph 2 of the Act or to make a request set forth in Article 6, paragraph 1 or paragraph 8 of the Act (hereinafter referred to as a "Notification, etc." in this Article) by using a magnetic disk (which means a flexible disk cartridge or an optical disk; the same shall apply hereinafter) shall submit a magnetic disk recording the matters pertaining to said Notification, etc. to the prefectural governor in the case of a notification under Article 5, paragraph 2 of the Act and to the competent minister in the case of a request set forth in Article 6, paragraph 1 or paragraph 8 of the Act.

Article 10 (Method of Disclosure by Using a Magnetic Disk)

When the competent minister makes a disclosure under Article 11 of the Act by using a magnetic disk, he/she shall deliver to the person who has made the Disclosure Request a magnetic disk onto which the Matters Recorded in the File that pertain to the Disclosure Request have been copied.

Supplementary Provisions (Extract)

Article 1 (Effective Date)

This Cabinet Order shall come into force as from the day of enforcement of the Act (March 30, 2000).

Article 2 (Transitional Measure)

Until the day on which two years have elapsed from the day of enforcement of the provisions set forth in Article 1, item 3 of the Supplementary Provisions of the Act,
the term “one ton” in Article 4, item 1 (a) shall be deemed to be replaced with “five tons.”

**Supplementary Provisions (Cabinet Order No. 313 of June 7, 2000) (Extract)**

**Article 1 (Effective Date)**
This Cabinet Order shall come into force as from the day of enforcement of the Act for Partial Revision of the Cabinet Act (Act No. 88 of 1999) (January 6, 2001).

**Supplementary Provisions (Cabinet Order No. 56 of March 22, 2001) (Extract)**

**Article 1 (Effective Date)**
This Cabinet Order shall come into force as from April 1, 2001.

**Supplementary Provisions (Cabinet Order No. 441 of December 28, 2001)**

This Cabinet Order shall come into force as from the day of enforcement of the provisions set forth in Article 1, item 3 of the Supplementary Provisions of the Act (excluding the provisions of Article 5, paragraph 1) (January 12, 2002).

**Supplementary Provisions (Cabinet Order no. 386 of December 18, 2002) (Extract)**

**Article 1 (Effective Date)**
This Cabinet Order shall come into force as from April 1, 2003.

**Supplementary Provisions (Cabinet Order No. 28 of January 31, 2003) (Extract)**

**Article 1 (Effective Date)**
This Cabinet Order shall come into force as from the day of enforcement of the Act on Use of Information and Communications Technology in Administrative Procedures, etc. (February 3, 2003).

**Supplementary Provisions (Cabinet Order No. 47 of March 19, 2004)**

This Cabinet Order shall come into force as from March 29, 2004.

**Supplementary Provisions (Cabinet Order No. 328 of October 27, 2004)**

**Article 1 (Effective Date)**
This Cabinet Order shall come into force as from April 1, 2005.
**Article 2 (Transitional Measure)**

Any permissions, approvals, or other dispositions (limited to affairs under the jurisdiction of the Ministry of Economy, Trade and Industry prescribed in Article 12, paragraph 2 of the Act for Establishment of the Ministry of Economy, Trade and Industry prior to the revision by Article 2 of the Act for Partial Revision of the Mine Safety Act and the Act for Establishment of the Ministry of Economy, Trade and Industry [said Act for Establishment (Act No. 99 of 1999) shall be hereinafter referred to as the "Old Act for Establishment of the Ministry of Economy, Trade and Industry"] that relate to the affairs set forth in Article 4, paragraph 1, item 59 of the Old Act for Establishment of the Ministry of Economy, Trade and Industry; hereinafter referred to as "Dispositions, etc.") granted or made prior to the enforcement of this Cabinet Order by the Directors-General of Regional Bureaus of Economy, Trade and Industry pursuant to the provisions of the respective Cabinet Orders prior to the revision shall be deemed to be Dispositions, etc. made by the Directors-General of Industrial Safety and Inspection Departments who have jurisdiction over the jurisdictional district of the respective Directors-General of Regional Bureaus of Economy, Trade and Industry, and any applications, notifications and other acts (limited to affairs under the jurisdiction of the Ministry of Economy, Trade and Industry prescribed in Article 12, paragraph 2 of the Old Act for Establishment of the Ministry of Economy, Trade and Industry that relate to the affairs set forth in Article 4, paragraph 1, item 59 of the Old Act for Establishment of the Ministry of Economy, Trade and Industry; hereinafter referred to as "Applications, etc.") made or conducted prior to the enforcement of this Cabinet Order with the Directors-General of Regional Bureaus of Economy, Trade and Industry pursuant to the provisions of the respective Cabinet Orders prior to the revision shall be deemed to be Applications, etc. made with the Directors-General of Industrial Safety and Inspection Departments who have jurisdiction over the jurisdictional district of the respective Directors-General of Regional Bureaus of Economy, Trade and Industry.

**Appended table 1 (Re: Article 1)**

1. zinc compound (water-soluble)

2. acrylamide
3. acrylic acid
4. ethyl acrylate
5. 2-(dimethylamino)ethyl acrylate
6. methyl acrylate
7. acrylonitrile
8. acrolein
9. bis-(2-ethylhexyl)adipate
10. adiponitrile
11. acetoaldehyde
12. acetonitrile
13. 2, 2′-azobisisobutyronitrile
14. o-anisidine
15. aniline
16. 2-aminoethanol
17. N-(2-aminoethyl)·1,2-ethanediame; diethylenetriamine
18. 5-amino·1·[2,6-dichloro·4·(trifluoromethyl)phenyl]·3·cyano·4·[(trifluoromethyl) sulfinyl]pyrazole; fipronil
19. 3-amino·1H·1,2,4-triazole; amitrole
20. 2-amino·4·[hydroxy (methyl) phosphinoyl]butylic acid; glufosinate
21. m-aminophenol
22. allyl alcohol

23. 1-allyloxy-2,3-epoxypropane

24. n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)

25. antimony and its compounds

26. asbestos

27. 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

28. isoprene

29. 4,4’-isopropylidenediphenol; bisphenol A

30. polymer of 4,4’-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid); bisphenol A type epoxy resin (liquid)

31. 2,2’-isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]diethanol

32. 2-imidazolidinethione

33. 1,1’-[iminodi(octamethylene)]diguanidine; iminoctadine

34. ethyl 2-[4-(6-chloro-2-quinoxalinyloxy)phenoxy]propionate; quizalofop-ethyl

35. S-ethyl 2-(4-chloro-2-methylphenoxy)thioacetate; phenothiol; MCPA-thioethyl

36. O-ethyl O-(6-nitro-m-tolyl) sec-butylphosphoramidothioate; butamifos

37. O-ethyl O-4-nitrophenyl phenylphosphonothioate; EPN

38. N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine; pendimethalin

39. S-ethyl hexahydro-1H-azepine-1-carbothioate; molinate

40. ethylbenzene

41. ethyleneimine
42. ethylene oxide
43. ethylene glycol
44. ethylene glycol monoethyl ether
45. ethylene glycol monomethyl ether
46. ethylenediamine
47. ethylenediaminetetraacetic acid
48. zinc N,N’-ethylenebis(dithiocarbamate): zineb
49. manganese N,N’-ethylenebis(dithiocarbamate): maneb
50. complex compounds of manganese N,N’-ethylenebis(dithiocarbamate) and zinc N,N’-ethylenebis(dithiocarbamate): mancozeb
51. 1,1’-ethylene-2,2’-bipyridinium dibromide: diquat dibromide
52. 4’-ethoxyacetanilide: phenacetin
53. 5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole: echloromezol
54. epichlorohydrin
55. 2,3-epoxy-1-propanol
56. 1,2-epoxypropane; propylene oxide
57. 2,3-epoxypropyl phenyl ether
58. 1-octanol
59. p-octylphenol
60. cadmium and its compounds
61. ε-caprolactam
62. 2,6-xylenol
63. xylene
64. silver and its water-soluble compounds
65. glyoxal
66. glutaraldehyde
67. cresol
68. chromium and chromium(III) compounds
69. chromium(VI) compounds
70. chloroacetyl chloride
71. o-chloroaniline
72. p-chloroaniline
73. m-chloroaniline
74. chloroethane
75. 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine; atrazine
76. 2-chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide; metolachlor
77. chloroethylene; vinyl chloride
78. 3-chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-a, a, α-trifluoro-2, 6-dinitro-p-toluidine; fluazinam
79. 1-2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl|methyl|1H-1, 2,4-triazole; difenoconazole
80. chloroacetic acid

81. 2'-chloro-2',6'-diethyl-N-(2-propoxyethyl)acetanilide; pretilachlor

82. 2'-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide; alachlor

83. 1'-chloro-2,4'-dinitrobenzene

84. 1'-chloro-1,1'-difluoroethane; HCFC-142b

85. chlorodifluoromethane; HCFC-22

86. 2'-chloro-1,1,1,2'-tetrafluoroethane; HCFC-124

87. chlorotrifluoroethane; HCFC-133

88. chlorotrifluoromethane; CFC-13

89. o'-chlorotoluene

90. 2'-chloro-4,6'-bis(ethylamino)-1,3,5'-triazine; shimazine; CAT

91. 3'-chloropropene; allyl chloride

92. 4'-chlorobenzyl N-(2,4'-dichlorophenyl)-2'- {1H-1,2,4'-triazol-1'-yl}thioacetimidate; imibenconazole

93. chlorobenzene

94. chloropentafluoroethane; CFC-115

95. chloroform

96. chloromethane; methyl chloride

97. (4'-chloro-2'-methylphenoxy)acetic acid; MCP; MCPA

98. 2'-chloro-N-(3'-methoxy-2'-thienyl)-2',6'-dimethylacetanilide; thenylchlor
99. divanadium pentaoxide

100. cobalt and its compounds

101. 2-ethoxyethyl acetate; ethylene glycol monoethyl ether acetate

102. vinyl acetate

103. 2-methoxyethyl acetate; ethylene glycol monomethyl ether acetate

104. salicylaldehyde

105. $\alpha$-Cyano-3-phenoxybenzyl $N$-(2-chloro-\(\alpha,\alpha,\alpha\)-trifluoro-p-tolyl)-D-valinate; fluvanlate

106. $\alpha$-Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate; fenvalerate

107. $\alpha$-Cyano-3-phenoxybenzyl3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; cypermethrin

108. inorganic cyanide compounds (except complex salts and cyanates)

109. 2-(diethylamino)ethanol

110. S-4-chlorobenzyl N,N-diethylthiocarbamate; thiobencarb

111. N,N-diethyl-3-(2,4,6-trimethylphenylsulfonyl)-1H-1,2,4-triazole-1-carboxamide; cafenstrole

112. tetrachloromethane

113. 1,4-dioxane

114. cyclohexylamine

115. N-cyclohexyl-2-benzothiazolesulfenamide

116. 1,2-dichloroethane

117. 1,1-Dichloroethylene; vinyldene dichloride
118. cis-1,2-dichloroethylene
119. trans-1,2-dichloroethylene
120. 3,3’-dichloro·4,4’-diaminodiphenylmethane
121. dichlorodifluoromethane: CFC-12
122. 3,5-dichloro·N-(1,1·dimethyl·2-propynyl)benzamide: propyzamide
123. dichlorotetrafluoroethane: CFC-114
124. 2,2-dichloro·1,1,1-trifluoroethane: HCFC-123
125. 2’,4-dichloro·α,α,α-trifluoro·4’-nitro·m-toluenesulfonanilide: flusulfamide
126. 2·[4·(2,4·dichloro·m-toluoyl)·1,3-dimethyl·5-pyrazolyloxy]·4·methylacetophenone: benzofenap
127. 1,2-dichloro·3-nitrobenzene
128. 1,4-dichloro·2-nitrobenzene
129. 3·(3,4-dichlorophenyl)·1,1-dimethylurea: diuron: DCMU
130. 3·(3,4-dichlorophenyl)·1-methoxy·1-methylurea: linuron
131. 2,4-dichlorophenoxyacetic acid: 2,4-D: 2,4-PA
132. 1,1-dichloro·1-fluoroethane: HCFC-141b
133. dichlorofluoromethane: HCFC-21
134. 1,3-dichloro·2-propanol
135. 1,2-dichloropropane
136. 3’,4’-dichloropropionanilide: propanil: DCPA
137. 1,3-dichloropropene; D-D
138. 3,3’-dichlorobenzidine
139. o-dichlorobenzene
140. p-dichlorobenzene
141. 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyloxy]acetophenone; pyrazoxyfen
142. 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl 4-toluenesulfonate; pyrazolynate
143. 2,6-dichlorobenzonitrile; dichlobenil; DBN
144. dichloropentafluoropropane; HCFC-225
145. dichloromethane; methylene dichloride
146. 2,3-dicyano-1,4-dithiaanthraquinone; dithianon
147. diisopropyl 1,3-dithiolan-2-ylidenemalonate; isoprothiolane
148. O-ethyl S,S-diphenyl phosphorodithioate; edifenphos; EDDP
149. S-2-(ethylthio)ethyl O,O-dimethyl phosphorodithioate; thiometon
150. O-ethyl O-4-(methylthio)phenyl S-n-propyl phosphorodithioate; sulprofos
151. O,O-diethyl S-2-(ethylthio)ethyl phosphorodithioate; ethylthiometon; disulfoton
152. O,O-diethyl S-(6-chloro-2,3-dihydro-2-oxobenzoxazolinyl)methyl phosphorodithioate; phosalone
153. O,2,4-dichlorophenyl O-ethyl S-propyl phosphorodithioate; prothiofos
154. S-(2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl O,O-dimethyl phosphorodithioate; methidathion; DMTP
155. O,O-dimethyl S-1,2-bis(ethoxycarbonyl)ethyl phosphorodithioate; malathion; malathion
156. O,O-dimethyl S-(N-methylcarbamoyl)methyl phosphorodithioate; dimethoate

157. dinitrotoluene

158. 2,4-dinitrophenol

159. diphenylamine

160. 2-(di-n-butylamino)ethanol

161. 2,3-dihydro-2,2-dimethyl-7-benzo[b]furyl N-(dibutylamino)thio-N-methylcarbamate; carbosulfan

162. dibromotetrafluoroethane; halone-2402

163. 2,6-dimethylaniline

164. 3,4-dimethylaniline

165. S-4-phenoxybutyl N,N-dimethylthiocarbamate; phenothiocarb

166. N,N-dimethyldodecylamine N-oxide

167. dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate; trichlorfon; DEP

168. 1,1′-dimethyl-4,4′-bipyridinium salts (except paraquat dichloride)

169. 1,1′-dimethyl-4,4′-bipyridinium dichloride; paraquat; paraquat dichloride

170. S-benzyl N-(1,2-dimethylpropyl)-N-ethylthiocarbamate; esprocarb

171. 3,3′-dimethylbenzidine; o-tolidine

172 N,N-dimethylformamide

173. ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate; phenthoate; PAP

174. 3,5-diodo-4-octanoyloxybenzonitrile; ioxynil octanoate
175. mercury and its compounds

176. organic tin compounds

177. styrene

178. selenium and its compounds

179. dioxins

180. 2-thioxo-3,5-dimethyltetrahydro-2H-1,3,5-thiadiazine; dazomet

181. thiourea

182. thiophenol

183. O-1-(4-chlorophenyl)-4-pyrazolyl O-ethyl S-propyl phosphorothioate; pyraclonos

184. O-4-cyanophenyl O,O-dimethyl phosphorothioate; cyanophos; CYAP

185. O,O-diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate; diazinon

186. O,O-diethyl O-6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl phosphorothioate; pyridaphenthion

187. O,O-diethyl O-2-quinoxalinyl phosphorothioate; quinalphos

188. O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate; chlorpyrifos

189. O,O-diethyl O-5-phenyl-3-isoxazolyl phosphorothioate; isoxathion

190. O-2,4-dichlorophenyl O,O-diethyl phosphorothioate; dichlophenthion; ECP

191. O,O-dimethyl S-2-[1-(N-methylcarbamoyl)ethylthio]ethyl phosphorothioate; vamidothion

192. O,O-dimethyl O-3-methyl-4-nitrophenyl phosphorothioate; fenitrothion; MEP

193. O,O-dimethyl O-3-methyl-4-(methylthio)phenyl phosphorothioate; fenthion; MPP
194. O-3,5,6-trichloro-2-pyridyl O,O-dimethyl phosphorothioate: chlorpyrifos-methyl
195. O-4-bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate: profenofos
196. S-benzyl O,O-diisopropyl phosphorothioate: iprobenfos; IBP
197. decabromodiphenyl ether
198. 1,3,5,7-tetraazatricyclo[3.3.1.13,7]decane: hexamethylenetetramine
199. tetrachloroisophthalonitrile: chlorothalonil: TPN
200. tetrachloroethylene
201. tetrachlorodifluoroethane: CFC-112
202. tetrahydromethylphthalic anhydride
203. tetrafluoroethylene
204. tetramethylthiuram disulfide: thiram
205. terephthalic acid
206. dimethyl terephthalate
207. copper salts (water-soluble, except complex salts)
208. trichloroacetaldehyde
209. 1,1,1-trichloroethane
210. 1,1,2-trichloroethane
211. trichloroethylene
212. 2,4,6-trichloro-1,3,5-triazine
213. trichlorotrifluoroethane: CFC-113
214. trichloronitromethane; chloropicrin

215. 2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol; kelthane; dicofol

216. (3,5,6-trichloro-2-pyridyl)oxyacetic acid; triclopyr

217. trichlorofluoromethane; CFC-11

218. 1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

219. 2,4,6-trinitrotoluene

220. α,α,α-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine; trifluralin

221. 2,4,6-ribromophenol

222. tribromomethane; bromoform

223. 3,5,5-trimethyl-1-hexanol

224. 1,3,5-trimethylbenzene

225. o-toluidine

226. p-toluidine

227. toluene

228. 2,4-toluenediamine

229. 2-(2-naphthyloxy)propionanilide; naproanilide

230. lead and its compounds

231. nickel

232. nickel compounds

233. nitrilotriacetic acid
234. p-nitroaniline
235. nitroglycol
236. nitroglycerin
237. p-nitrochlorobenzene
238. N-nitrosodiphenylamine
239. p-nitrophenol
240. nitrobenzene
241. carbon disulfide
242. nonylphenol
243. barium and its water-soluble compounds
244. picric acid
245. 2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine; simetryn
246. bis(8-quinolinolato)copper; oxine-copper
247. 3,6-bis(2-chlorophenyl)-1,2,4,5-tetrazine; clofentezine
248. S,S'-methylene O,O,O',O'-tetraethyl bis(phosphorodithioate); ethion
249. zinc bis(N,N'-dimethylthiocarbamate); ziram
250. N,N'-ethylenbis(thiocarbamoylthiozinc)bis(N,N'-dimethylthiocarbamate); polycarbamate
251. bis(hydrogenated tallow)dimethylammonium chloride
252. arsenic and its inorganic compounds
253. hydrazine
254. hydroquinone

255. 4-vinyl-1-cyclohexene

256. 2-vinylpyridine

257. 1-(4-biphenylyoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanol; bitertanol

258. piperazine

259. pyridine

260. pyrocatechol

261. phenyloxirane

262. o-phenylenediamine

263. p-phenylenediamine

264. m-phenylenediamine

265. p-phenetidine

266. phenol

267. 3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; permethrin

268. 1,3-butadiene

269. di-n-octyl phthalate

270. di-n-butyl phthalate

271. di-n-heptyl phthalate

272. bis(2-ethylhexyl)phthalate
273. n-butyl benzyl phthalate

274. 2-tert-butylimino-3-isopropyl-5-phenyltetrahydro-4H-1,3,5-thiadiazin-4-one; buprofezin

275. N-tert-butyl-N'(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide; tebufenozide

276. methyl N-[1-(N-n-butylcarbamoyl)-1H-2-benzimidazolyl]carbamate; benomyl

277. butyl (R)-2-[4-(4-cyano-2-fluorophenoxy)phenoxy]propionate; cyhalofop-butyl

278. tert - butyl 4 . ([((1 , 3 . dimethyl . 5 . phenoxy . 4 . pyrazolyl) methylidene] aminoxy) methyl) benzoate; fenpyroximate

279. 2-(4-tert-butyloxy)cyclohexyl 2-propynyl sulfite; propargite; BPPS

280. 2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloro-3(2H)-pyridazinone; pyridaben

281. N·(4·tert·Butylbenzyl)·4·chboro·3·ethyl·1·methylpyrazole·5·carboxamide; tebufenpyrad

282. N·(tert·butyl)·2-benzothiazolesulfenamide

283. hydrogen fluoride and its water-soluble salts

284. polymer of N,N'-propylenebis(dithiocarbamic acid) and zinc; propineb

285. bromochlorodifluoromethane; halone-1211

286. bromotrifluoromethane; halone-1301

287. 2bBromopropane

288. bromomethane; methyl bromide

289. hexakis(2-methyl-2-phenylpropyl)distannoxane; fenbutatin oxide

290. 1,4,5,6,7,7-hexachlorobicyclo[2.2.1]5-heptene-2,3-dicarboxylic acid; chlorendic acid
291. 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-
benzodioxathiepine 3-oxide; endosulfan

292. hexamethylenediamine

293. hexamethylene diisocyanate

294. beryllium and its compounds

295. benzylidyne trichloride

296. benzylidene dichloride

297. benzyl chloride

298. benzaldehyde

299. benzene

300. 1,2,4-benzenetricarboxylic 1,2-anhydride

301. 2-(2-benzothiazolyloxy)-N-methylacetanilide; mefenacet

302. pentachloronitrobenzene; quintozene; PCNB

303. pentachlorophenol

304. boron and its compounds

305. phosgene

306. polychlorinated biphenyls; PCBs

307. poly(oxyethylene) alkyl ether (alkyl C=12-15)

308. poly(oxyethylene) octylphenyl ether

309. poly(oxyethylene) nonylphenyl ether

310. formaldehyde
311. manganese and its compounds
312. phthalic anhydride
313. maleic anhydride
314. methacrylic acid
315. 2-ethylhexyl methacrylate
316. 2,3-epoxypropyl methacrylate
317. 2-(diethylamino)ethyl methacrylate
318. 2-(dimethylamino)ethyl methacrylate
319. n-butyl methacrylate
320. methyl methacrylate
321. methacrylonitrile
322. (Z)-2′-methylacetophenone 4,6-dimethyl-2-pyrimidinylhydrazone; ferimzone
323. N-methylaniline
324. methyl isothiocyanate
325. 2-isopropylphenyl N-methylcarbamate; isoprocarb; MIPC
326. 2-isopropoxyphenyl N-methylcarbamate; propoxur; PHC
327. 2,3-dihydro-2,2-dimethyl-7-benzo[b]furanyl N-methylcarbamate; carbofuran
328. 3,5-dimethylphenyl N-methylcarbamate; XMC
329. 1-naphthyl N-methylcarbamate; carbaryl; NAC
330. 2-sec-butylphenyl N-methylcarbamate; fenobucarb; BPMC
331. methyl
3-chloro-5-(4,6-dimethoxy-2-pyrimidinylcarbamoysulfamoyl)-1-methylpyrazole-4-carboxylate; halosulfuron - methyl

332. 3-methyl-1,5-di(2,4-xylyl)-1,3,5-triazapenta-1,4-diene; amitraz

333. N-methyldithiocarbamic acid; carban

334. 6-methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one

335. α-methylstyrene

336. 3-m ethylpyridine

337. S-1-m ethyl-1-phenylethyl 1-piperidinecarbothioate; dimepiperate

338. methyl-1,3-phenylene diisocyanate; m-tolylene diisocyanate

339. 2-(1-m ethylpropyl)-4,6-dinitrophenol

340. 4,4'-m ethylenedianiline

341. methylenebis(4,1-cyclohexylene)diisocyanate

342. O-3-tert-butylphenyl N-(6-methoxy-2-pyridyl)-N-methylthiocarbamate; pyributicarb

343. 9-methoxy-7H-furo[3,2-g][1]benzopyran-7-one; methoxsalen

344. 2-methoxy-5-methylaniline

345. mercaptoacetic acid

346. molybdenum and its compounds

347. 2-chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphate; chlorfenvinphos; CVP

348. 2-chloro-1-(2,4-dichlorophenyl)vinyl dimethyl phosphate; dimethylvinphos
349. 1,2-dibromo-2,2-dichloroethyl dimethyl phosphate; naled; BRP

350. dimethyl 2,2-dichlorovinyl phosphate; dichlorvos; DDVP

351. dimethyl (E)-1-methyl-2-(N-methylcarbamoyl)vinyl phosphate; monocrotophos

352. tris(2-chloroethyl) phosphate

353. tris(dimethylphenyl) phosphate

354. tri-n-butyl phosphate

**Appended table 2 (Re: Article 2)**

1. acetamide

2. p-anisidine

3. 2-amino-5-nitrobenzonitrile

4. 2-aminopyridine

5. hydrochloride salt of 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-2-methylbenzeneamine; magenta

6. p-aminophenol

7. 3'-amino-4'-methoxyacetanilide

8. 4'-allyl-1,2-dimethoxybenzene

9. indium and its compounds

10. N-ethylaniline

11. 2-thylamino-4-isopropylamino-6-methylthio-1,3,5-triazine; ametryn

12. O-ethyl O-2-(isopropoxycarbonyl)phenyl N-isopropylphosphoramidothioate; isofenphos
13. 5-ethyl-5-phenyl-2,4,6(1H,3H,5H)-pyrimidinetrione; phenobarbital
14. 1,2-epoxybutane
15. 4-oxilanyl-1,2-epoxycyclohexane
16. tetramethyl orthosilicate; tetramethoxysilane
17. 2,4-xylenol
18. 2-(4-chloro-6-ethylamino-1,3,5-triazin-2-yl)amino-2-methylpropiononitrile; cyanazine
19. 5-chloro-N-{2-[4-(2-ethoxyethyl)-2,3-dimethylphenoxyl]ethyl}-6-ethylpyrimidine-4-amine; pylimidifen
20. 1-chloronaphthalene
21. O-6-chloro-3-phenyl-4-pyridazinyl S-n-octyl thiocarbonate; pyridate
22. p-chlorophenol
23. 2-chloropropionic acid
24. α-cyano-3-phenoxybenzyl 2,2-dichloro-1-(4-ethoxyphenyl)cyclopropanecarboxylate; cycloprothrin
25. (S)-α-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cis-cyclopropanecarboxylate; alpha-cypermethrin
26. 1-(3,5-dichloro-2,4-difluorophenyl)-3-(2,6-difluorobenzoyl)urea; teflubenzuron
27. 2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide; chloramphenicol
28. 2,4'-dichloro-α-(5-pyrimidinyl)benzhydryl alcohol; fenarimol
29. 2-(2,4-dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)-2-hexanol; hexaconazole
30. disodium 4-amino-3-
31. disodium 8-(3, 3’-dimethyl-4’-[4-[(p-tolyl)sulfonyloxy]phenylazo]-1,1’-biphenyl-4-ylazo)-7-hydroxy-1,3-naphthalenedisulfonate; C.I. Acid Red 114

32. disodium 2,2’-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate]; C.I. Fluorescent 260

33. mixture of 2,4-dinitro-6-octylphenyl crotonate and 2,6-dinitro-4-octylphenyl crotonate (octyl=1-methylheptyl, 1-ethylhexyl, 1-propylpentyl); dinocap; DPC

34. 4,6-dinitro-o-cresol

35. m-dinitrobenzene

36. 2,3-dihydro-6-propyl-2-thioxo-4(1H)-pyrimidinone; propylthiouracil

37. divinylbenzene

38. 5,5-diphenyl-2,4-imidazolidinedione

39. 1,4-dibromobutane

40. 1,3-dibromopropane

41. dibenzyl ether

42. 2,3-dimethylaniline

43. 1,1-dimethylhydrazine

44. thallium and its water-soluble compounds

45. thioacetamide

46. iron carbonyl

47. 1,1,2,2-tetrachloroethane
48. tetrasodium 3,3':[(3,3'-dimethoxy-1,1'-biphenyl-4,4'-diyl)bis(azo)]bis[5-amino
     -4'-hydroxy-2,7'-naphthalenedisulfonate]; C.I. Direct Blue 15

49. 2,3,5,6-tetrafluoro-4-methylbenzyl(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2
     -dimethylcyclopropanecarboxylate; tefluthrin

50. tellurium and its compounds (except tellurium hydride)

51. trichloroacetonitrile

52. sodium 3-(N-4-[4-(dimethylamino)phenyl](4-N-ethyl[(3-sulfonatophenyl)
     methyl]amino)phenyl)methylene]-2,5-cyclohexadien-1-ylidene]-N-ethylammonio)
     benzenesulfonate; C.I. Acid Violet 49

53. sodium 1,1'-biphenyl-2-olate

54. propylene dinitrate

55. m-nitroaniline

56. 5'-[N,N-bis(2-acetyloxyethyl)amino]-2'-(2-bromo-4,6-dinitrophenylazo)-4'
     -methoxyacetanilide

57. biphenyl

58. phenanthrene

59. p-(phenylazo)aniline

60. diisobutyl phthalate

61. 1-tert-Butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea: diafenthiuron

62. tert-butyl hydroperoxide

63. 1,3-propanesultone

64. N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]imidazole-1-carboxamide: prochloraz
65. 2-propyn-1-ol

66. 2-(4-bromodifluoromethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether; halfenprox; Bromophenol

67. p-bromophenol

68. 3-bromo-1-propene; allyl bromide

69. hexadecyltrimethylammonium bromide

70. hexahydro-1,3,5-trinitro-1,3,5-triazine; cyclonite

71. benzothiazole

72. ammonium pentadecafluoroctanoate

73. methyl 2-(4,6-dimethoxy-2-pyrimidinyloxy)-6-[1-(methoxyimino)ethyl]benzoate; pyriminobac-methyl

74. methylhydrazine

75. 2-methyl-1,1-biphenyl-3-ylmethyl(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; bifenthrin

76. methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)-2-thenoate; thifensulfuron methyl

77. 4,4′-methylenedib(N,N-dimethylaniline)

78. methylenebis(4,1-phenylene) diisocyanate

79. 4,4′-methylenedibis(2-methylcyclohexaneamine)

80. (Z)-2-chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate; tetrachlorvinphos; CVMP

81. tris(2-ethylhexyl) phosphate