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This English translation of the Order for Enforcement of the Act on Confirmation, etc. of Release Volumes of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof has been translated (through the revisions of Cabinet Order No. 328 of October 27, 2004 (Effective April 1, 2005) in compliance with the Standard Bilingual Dictionary (August 2006 edition).

This is an unofficial translation. Only the original Japanese texts of laws and regulations have legal effect, and the translations are to be used solely as reference material to aid in the understanding of Japanese laws and regulations.

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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 26, item 42, item 60, item 69, item 77, item 179, item 232, item 252, item 294, item 295, item 299 and item 343 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:

Minister of Health, Labour and Welfare Pharmaceutical Affairs and Food Sanitation Council

Minister of Economy, Trade and Industry Chemical Substances Council Minister of the Environment Central Environmental Council

#### 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.

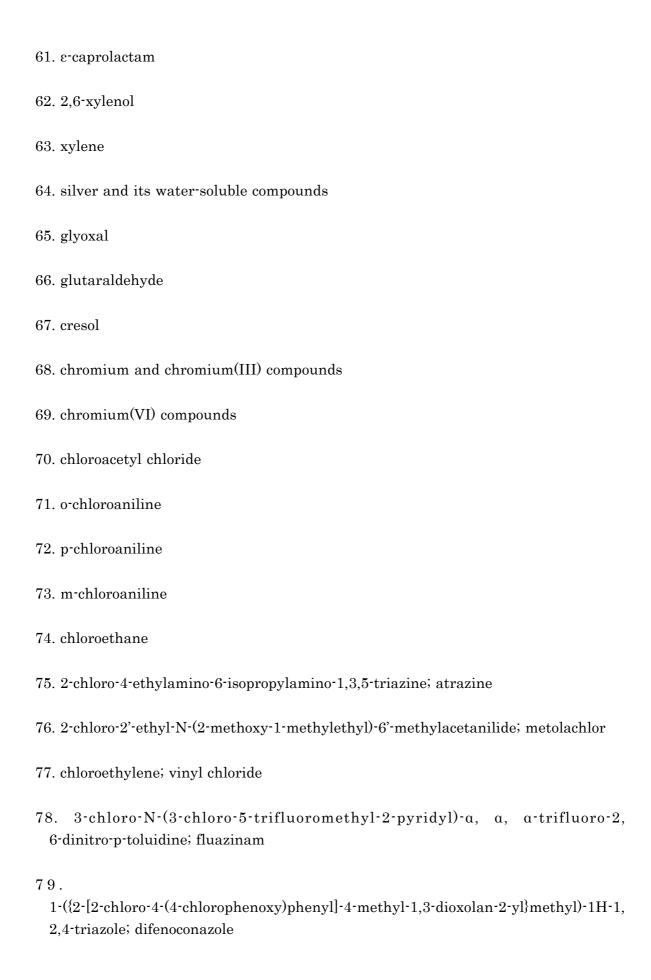
#### Appended table 1 (Re: Article 1)

- 1. zinc compound (water-soluble)
- 2. acrylamide

3. acrylic acid
4. etyl 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-ethanediamine; 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-[hydroxyl (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; echlomezol 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



- 80. chloroacetic acid
- 81. 2-chloro-2',6'-diethyl-N-(2-propoxyethyl)acetanilide; pretilachlor
- 82. 2-chloro-2',6'-diethy-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.α-Cyano-3-phenoxybenzyl N-(2-chloro-α,α,α-trifluoro-p-tolyl)-D-valinate; fluvalinate
- 106. α-Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate; fenvalerate
- 107.α-Cyano-3-phenoxybenzyl3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxyla te; 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; vinylydene 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; malathon; 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-diiodo-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; pyraclofos
- 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; dichlofenthion; 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 o 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.  $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine; trifluralin
- 221. 2,4,6-t 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



254. hydroquinone
255. 4-vinyl-1-cyclohexene
256. 2-vinylpyridine
257. 1-(4-biphenylyloxy)-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-butylphenoxy)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 chloro 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

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

311. manganese and its compounds

- 331. methyl
  - 3-chloro-5-(4,6-dimethoxy-2-pyrimidinylcarbamoylsulfamoyl)-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; carbam
- 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-dimethylphenoxy]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
- 2.5. (S)  $\alpha$  c y a n o 3 p h e n o x y b e n z y l 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-

- [4'-(2,4-diaminophenylazo)-1,1'-biphenyl-4-ylazo]-5-hydroxy-6-phenylazo-2,7 -naphthalenedisulfonate; C.I. Direct Black 38
- 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
- 3 2. 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; halfenproxp-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 pentadecafluorooctanoate
- 73. methyl 2-(4,6-dimethoxy-2-pyrimizinyloxy)-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'-methylenebis(N,N-dimethylaniline)
- 78. methylenebis(4,1-phenylene) diisocyanate
- 79. 4,4'-methylenebis(2-methylcyclohexaneamine)
- 80. (Z)-2-chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate; tetrachlorvinphos; CVMP
- 81. tris(2-ethylhexyl) phosphate