

# **Enforcement Order of the Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement**

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

The Cabinet hereby enacts 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 the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement (Act No. 86 of 1999).

(Class I Designated Chemical Substances)

Article 1 Class I designated chemical substances set forth in Article 2, paragraph (2) of the Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement (hereinafter referred to as the "Act") are as prescribed in the Appended Table 1.

(Class II Designated Chemical Substances)

Article 2 Class II designated chemical substances set forth in Article 2, paragraph (3) of the Act are as prescribed in the Appended Table 2.

(Business Types)

Article 3 Business types specified by Cabinet Order as set forth in Article 2, paragraph (5) of the Act are as follows:

- (i) metal mining;
- (ii) crude oil and natural gas mining;
- (iii) manufacturing industry;
- (iv) electric utility industry;
- (v) gas industry;
- (vi) heat supply industry
- (vii) sewerage industry;
- (viii) railroad industry;
- (ix) warehousing industry (limited to warehousing to store crops or to store gas or liquid in a storage tank);
- (x) petroleum wholesale business;
- (xi) iron scrap wholesale business (limited to the wholesale business of collecting substances contained in air conditioners for automobiles or

- removing air conditioners for automobiles installed in automobile bodies);
- (xii) automobile wholesale business (limited to the wholesale business of collecting substances contained in air conditioners for automobiles)
- (xiii) fuel retail business;
- (xiv) laundry industry;
- (xv) photograph business;
- (xvi) automobile repair industry;
- (xvii) machine repair industry;
- (xviii) product inspection industry;
- (xix) measurement certification industry (excluding general measurement certification industry);
- (xx) domestic waste industry (limited to garbage disposal business)
- (xxi) industrial waste management industry (including specially controlled industrial waste management industry)
- (xxii) medical and other health services;
- (xxiii) higher education institutions (including adjunct facilities and excluding those pertaining only to humanities); and
- (xxiv) natural science research institutes.

(Requirements for Business Operators Handling Class I Designated Chemical Substances)

Article 4 The requirements specified by Cabinet Order other than those listed in the items of Article 2, paragraph (5) of the Act are as follows.

- (i) that the business operator falls under any of the following sub-items:
  - (a) a business operator that has a place of business at which the operator uses, in the course of business activities during the fiscal year, 1 ton or more of any of the class I designated chemical substances (including those contained in products (meaning products as prescribed in Article 2, paragraph (5), item (i) of the Act; the same applies in (b)) that the operator handles in the course of business activities during the fiscal year) other than specific class I designated chemical substances (meaning class I designated chemical substances listed in the Appended Table 1, (xxxiii), (lvi), (lxxv), (lxxxviii), (xciv), (ccxliii), (cccv), (cccix), (cccxxxii), (cccli), (ccclxxxv), (cccxciv), (cccxcvii), (cd), and (cdxi); the same applies in (b)) (when a class I designated chemical substance is any of the following 1 to 16, the term "1 ton or more" refers to the mass of the relevant substance specified in 1 to 16 respectively; the mass is referred to as the "mass of class I designated chemical substance" in the following Article):
    1. Class I designated chemical substance listed in the Appended Table 1, (i): zinc;
    2. Class I designated chemical substance listed in the Appended Table 1,

- (xxxi): antimony;
3. Class I designated chemical substance listed in the Appended Table 1, (xliv): indium;
  4. Class I designated chemical substance listed in the Appended Table 1, (lxxxii): silver;
  5. Class I designated chemical substance listed in the Appended Table 1, (lxxxvii): chromium;
  6. Class I designated chemical substance listed in the Appended Table 1, (cxxxii): cobalt;
  7. Class I designated chemical substance listed in the Appended Table 1, (cxliv): cyanogen;
  8. Class I designated chemical substance listed in the Appended Table 1, (ccxxxvii): mercury;
  9. Class I designated chemical substance listed in the Appended Table 1, (ccxxxix): tin;
  10. Class I designated chemical substance listed in the Appended Table 1, (cxlii): selenium;
  11. Class I designated chemical substance listed in the Appended Table 1, (cclxxii): copper;
  12. Class I designated chemical substance listed in the Appended Table 1, (cccxxi): vanadium;
  13. Class I designated chemical substance listed in the Appended Table 1, (ccclxxiv): fluorine;
  14. Class I designated chemical substance listed in the Appended Table 1, (cdv): boron
  15. Class I designated chemical substance listed in the Appended Table 1, (cdxii): manganese;
  16. Class I designated chemical substance listed in the Appended Table 1, (cdliii): molybdenum
- (b) a business operator that has a place of business at which the operator uses, in the course of business activities during the fiscal year, 0.5 tons or more of any of the specific class I designated chemical substances (including those contained in products that the operator handles in the course of business activities during the fiscal year) (when a specific class I designated chemical substance is any of the following 1 to 6, the term "0.5 tons or more" refers to the mass of the relevant substance specified respectively in 1 to 6 that the specific class I designated chemical substance contains; the mass is referred to as the "mass of specific class I designated chemical substance" in the following Article):
1. Class I designated chemical substance listed in the Appended Table 1, (lxxv): cadmium;

2. Class I designated chemical substance listed in the Appended Table 1, (lxxxviii): chromium;
  3. Class I designated chemical substance listed in the Appended Table 1, (cccv): lead;
  4. Class I designated chemical substance listed in the Appended Table 1, (cccix): nickel;
  5. Class I designated chemical substance listed in the Appended Table 1, (cccxxxii): arsenic; and
  6. Class I designated chemical substance listed in the Appended Table 1, (cccxciv): beryllium;
- (c) regarding a business operator who engages in a business type set forth in item (i) or item (ii) of the preceding Article, the operator that has established a facility specified by Order 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) regarding a business operator who engages in a business type set forth in item (vii) of the preceding Article, the operator that has established a final sewage treatment facility;
- (e) regarding a business operator who engages in a business type set forth in item (xx) or item (xxi) of the preceding Article, the operator that has established a domestic waste disposal facility prescribed in Article 8, paragraph (1) of the Waste Disposal and Cleaning Act (Act No. 137 of 1970) or an industrial waste management facility prescribed in Article 15, paragraph (1) of that Act;
- (f) the business operator that has established a specified facility prescribed in Article 2, paragraph (2) of the Act on Special Measures against Dioxins (Act No. 105 of 1999); and
- (ii) the business operator has 21 or more regularly hired employees.

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

Article 5 The requirements specified by Cabinet Order as set forth in Article 2, paragraph (5), item (i) of the Act are that any of the class I designated chemical substances accounts for 1 percent or more of the total mass of the product or that any of the specific class I designated chemical substances accounts for 0.1 percent or more of the total mass of the product, and that the product does not fall under any of the following items:

- (i) a product that remains only in the form of a solid in the process of being handled by a business operator and does not become powdered or granulated;
- (ii) a product in which class I designated chemical substance is handled in a hermetically sealed condition;

- (iii) a product mainly for general consumers' daily use; or
- (iv) recyclable resources (meaning recyclable 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 applies in item (iv) of the following Article).

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

Article 6 The requirements specified by Cabinet Order as set forth in Article 2, paragraph (6) of the Act are that any of the class II designated chemical substances accounts for 1 percent or more of the total mass of the product and that the product does not fall under any of the following items:

- (i) a product that remains only in the form of a solid in the process of being handled by a business operator and does not become powdered or granulated;
- (ii) a product in which class II designated chemical substance is handled in a hermetically sealed condition;
- (iii) a product mainly for general consumers' daily use; or
- (iv) recyclable resources

(Councils Specified by Cabinet Order)

Article 7 Councils, etc. set forth in Article 18 of the Act that are specified by Cabinet Order are to be as listed in the right-hand column of the following Table for the respective ministers listed in the left-hand column of the 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 Environment Council

(Amount of Fees)

Article 8 (1) The amount of fees set forth in Article 19 of the Act (hereinafter simply referred to as "fees" in this Article) is to be the amount specified in the following items respectively, in accordance with the method of disclosure set forth in the relevant items:

- (i) delivery in paper form: 20 yen per sheet;
- (ii) delivery by way of copying information onto a floppy disk (limited to a floppy disk with a width of 90 millimeters, conforming to JIS X6223; the same applies in the following Article): 80 yen per disk plus 260 yen each for every 0.5 MB;
- (iii) delivery by way of copying information onto an optical disk (limited to an

- optical disk with a width of 120 millimeters, conforming to JIS X0606 or X6281, which can be read by an optical disk drive; the same applies in the following Article): 200 yen per disk plus 260 yen each for every 0.5 MB (in the case of delivery by way of copying all information recorded in the file for the fiscal year for which a request for disclosure has been made as prescribed in Article 10, paragraph (2) of the Act (hereinafter referred to as a "request for disclosure"), 200 yen per disk plus 900 yen each for every 200 MB); and
- (iv) way of having a person who receives the disclosure to copy information to a file stored on a computer (including input-output devices; hereinafter the same applies in this item) used by the person through use of an electronic data processing system (meaning an electronic data processing system connecting a computer used by the competent minister and a computer used by the person who receives the disclosure through an electric telecommunication line) (limited to cases where a request for disclosure has been made via an electronic data processing system prescribed in Article 3, paragraph (1) of the Act on the Use of Information and Communications Technologies for Administrative Procedures (Act No. 151 of 2002) as prescribed in that paragraph): 100 yen per case plus 240 yen each for every 0.5 MB (in the case of having the person to copy all information recorded in the file for the fiscal year for which a request for disclosure has been made, 100 yen per case plus 880 yen each for every 200 MB)
- (2) The fees must be paid by affixing a revenue stamp to the document on which the matters set forth in the items of Article 10, paragraph (2) of the Act are stated; provided, however, that the fees may be paid in cash when specified by order of the competent ministry.
- (3) a person who receives the disclosure of information recorded in the file may request the sending of a copy thereof by paying the sending expenses required in addition to the fees. In this case, the expense must be paid by postage stamp or by similar voucher specified by the competent minister.

(Method of Notification or Request by a Magnetic Disk)

Article 9 A person who seeks to provide notification under Article 5, paragraph (2) of the Act or make a request under Article 6, paragraph (1) or paragraph (8) of the Act (hereinafter referred to as a "notification, etc." in this Article) via a magnetic disk (meaning a floppy disk or an optical disk; the same applies hereinafter) must submit the magnetic disk that has the information pertaining to the notification, etc. recorded to the prefectural governor in the case of providing notification under Article 5, paragraph (2) of the Act, and to the competent minister in the case of making a request under Article 6, paragraph (1) or paragraph (8) of the Act, as specified by order of the competent ministry.

(Method of Disclosure via Magnetic Disk)

Article 10 When the competent minister makes the disclosure under Article 11 of the Act via a magnetic disk, the minister must deliver a magnetic disk that has copied only the information pertaining to the request for disclosure out of the information recorded in the file to the person who has made the request for disclosure.

**Supplementary Provisions [Extract]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of the date of on which the Act comes into effect (March 30, 2000).

(Transitional Measures)

Article 2 During the period until the day on which two years have passed from the date the provisions set forth in Article 1, item (iii) of the Supplementary Provisions of the Act comes into effect, the term "1 ton" in Article 4, item (i), (a) is deemed to be replaced with "5 tons."

**Supplementary Provisions [Cabinet Order No. 313 of June 7, 2000]  
[Extract]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of the date on which the Act for Partial Revision of the Cabinet Act (Act No. 88 of 1999) comes into effect (January 6, 2001).

**Supplementary Provisions [Cabinet Order No. 56 of March 22, 2001]  
[Extract]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of April 1, 2001.

**Supplementary Provisions [Cabinet Order No. 441 of December 28, 2001]**

This Cabinet Order comes into effect as of the date on which the provisions set forth in Article 1, item (iii) of the Supplementary Provisions of the Act (excluding the provisions of Article 5, paragraph (1)) comes into effect (January 12, 2002).

**Supplementary Provisions [Cabinet Order No. 386 of December 18, 2002]**

**[Extract]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of April 1, 2003.

**Supplementary Provisions [Cabinet Order No. 28 of January 31, 2003]**

**[Extract]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of the date on which the Act on the Use of Information and Communications Technologies for Administrative Procedures comes into effect (February 3, 2003).

**Supplementary Provisions [Cabinet Order No. 47 of March 19, 2004]**

This Cabinet Order comes into effect as of March 29, 2004.

**Supplementary Provisions [Cabinet Order No. 328 of October 27, 2004]**

(Effective Date)

Article 1 This Cabinet Order comes into effect as of April 1, 2005.

(Transitional Measures)

Article 2 Permission, approval and any other disposition made by the Director of the Regional Bureau of Economy, Trade and Industry pursuant to the provisions of the respective Cabinet Orders prior to their amendment before the implementation of this Cabinet Order (limited to permission, approval and any other disposition related to the affairs listed in Article 4, paragraph (1), item (lix) of the Act for Establishment of the Ministry of Economy, Trade and Industry prior to its amendment 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 (Act No. 99 of 1999; hereinafter referred to as the "former Act for Establishment of the Ministry of Economy, Trade and Industry") out of the affairs placed under the jurisdiction of the Ministry of Economy, Trade and Industry pursuant to Article 12, paragraph (2) of the former Act for Establishment of the Ministry of Economy, Trade and Industry; hereinafter the permission, approval and any other disposition are referred to as "disposition, etc.") are deemed to be disposition, etc. that has been made by the Director General of the Industrial Safety and Inspection Department having jurisdiction over the jurisdictional district of the respective Directors of the Regional Bureau of Economy, Trade and Industry. An application, notification or any

other act that has been filed, provided to or in any way undertaken with regard to the Director of the Regional Bureau of Economy, Trade and Industry pursuant to the provisions of the respective Cabinet Orders prior to their amendment before the implementation of this Cabinet Order (limited to an application, notification or any other act related to the affairs listed in Article 4, paragraph (1), item (lix) of the former Act for Establishment of the Ministry of Economy, Trade and Industry out of the affairs placed under the jurisdiction of the Ministry of Economy, Trade and Industry pursuant to Article 12, paragraph (2) of the former Act for Establishment of the Ministry of Economy, Trade and Industry; hereinafter the application, notification or any other act is referred to as "application, etc.") is deemed to be application, etc. that has been filed with the Director General of the Industrial Safety and Inspection Department having jurisdiction over the jurisdictional district of the respective Directors of the Regional Bureau of Economy, Trade and Industry.

#### **Supplementary Provisions [Cabinet Order No. 356 of November 21, 2008]**

(Effective Date)

- (1) This Cabinet Order comes into effect as of October 1, 2008.

(Transitional Measures)

- (2) The provisions of the Enforcement Order of the Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement after the amendment by this Cabinet Order apply to the release amount and the transferred amount of class I designated chemical substance prescribed in Article 5, paragraph (1) of the Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement (hereinafter referred to as the "release amount, etc.") to be assessed in or after fiscal year 2010, and the release amount, etc. to be notified in or after fiscal year 2011; and with regard to the release amount, etc. to be assessed in fiscal year 2009 and the release amount, etc. to be notified in fiscal year 2010, the provisions then in force remain applicable.

Appended Table 1 (Re: Article 1)

- (i) water-soluble compounds of zinc
- (ii) acrylamide
- (iii) ethyl acrylate
- (iv) acrylic acid and its water-soluble salts
- (v) 2-(dimethylamino)ethyl acrylate
- (vi) 2-hydroxyethyl acrylate
- (vii) n-butyl acrylate

(viii) methyl acrylate  
 (ix) acrylonitrile  
 (x) acrolein  
 (xi) sodium azide  
 (xii) acetaldehyde  
 (xiii) acetonitrile  
 (xiv) acetone cyanohydrin  
 (xv) acenaphthene  
 (xvi) 2,2'-azobisisobutyronitrile  
 (xvii) o-anisidine  
 (xviii) aniline  
 (xix) 1-amino-9,10-anthraquinone  
 (xx) 2-aminoethanol  
 (xxi) 5-amino-4-chloro-2-phenylpyridazin-3(2H)-one; chloridazon  
 (xxii) 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-cyano-4[(trifluoromethyl)sulfinyl]pyrazole; fipronil  
 (xxiii) p-aminophenol  
 (xxiv) m-aminophenol  
 (xxv) 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; metribuzin  
 (xxvi) 3-amino-1-propene  
 (xxvii) 4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4H)-one; metamitron  
 (xxviii) allyl alcohol  
 (xxix) 1-allyloxy-2,3-epoxypropane  
 (xxx) n-alkylbenzenesulfonic acid and its salts (limited to alkyl C=10-14)  
 (xxxi) antimony and its compounds  
 (xxxii) anthracene  
 (xxxiii) asbestos  
 (xxxiv) 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate  
 (xxxv) isobutyraldehyde  
 (xxxvi) isoprene  
 (xxxvii) 4,4'-isopropylidenediphenol; bisphenol A  
 (xxxviii) 2,2'-{isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]}diethanol  
 (xxxix) O-ethyl-O-(3-methyl-4-methylthiophenyl) N-isopropylaminophosphonate; fenamiphos  
 (xl) isopropyl 2-(4-methoxybiphenyl-3-yl)hydrazinofornate; bifenazate  
 (xli) 3'-isopropoxy-2-trifluoromethylbenzanilide; flutolanil  
 (xlii) 2-imidazolidinethione  
 (xliii) 1,1'-[iminodi(octamethylene)]diguandine; iminoctadine  
 (xliv) indium and its compounds  
 (xlv) ethanethiol  
 (xlvi) ethyl 2-[4-(6-chloro-2-quinoxalinyloxy)phenoxy]propionate; quizalofop-ethyl  
 (xlvii) O-ethyl O-(6-nitro-m-tolyl)sec-butylphosphoramidothioate; butamifos  
 (xlviii) O-ethyl O-4-nitrophenyl phenylphosphonothioate; EPN  
 (xlix) N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine; pendimethalin  
 (l) S-ethyl hexahydro-1H-azepine-1-carbothioate; molinate  
 (li) 2-ethylhexanoic acid  
 (lii) ethyl (Z)-3-[N-benzyl-N-[[methyl(1-methylthioethylideneaminooxycarbonyl)amino]thio]amino] propionate; alanycarb

- (liii) ethylbenzene
- (liv) O-ethyl S-1-methylpropyl (2-oxo-3-thiazolidinyl)phosphonothioate; fosthiazate
- (lv) ethyleneimine
- (lvi) ethylene oxide
- (lvii) ethylene glycol monoethyl ether
- (lviii) ethylene glycol monomethyl ether
- (lix) ethylenediamine
- (lx) ethylenediaminetetraacetic acid
- (lxi) manganese N,N'-ethylenebis(dithiocarbamate); maneb
- (lxii) complex compounds of manganese N,N'-ethylenebis(dithiocarbamate) and zinc N,N'-ethylenebis(dithiocarbamate); mancozeb
- (lxiii) 1,1'-ethylene-2,2'-bipyridinium dibromide; diquat dibromide
- (lxiv) 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether; etofenprox
- (lxv) epichlorohydrin
- (lxvi) 1,2-epoxybutane
- (lxvii) 2,3-epoxy-1-propanol
- (lxviii) 1,2-epoxypropane; propylene oxide
- (lxix) 2,3-epoxypropyl phenyl ether
- (lxx) emamectin benzoate; mixture of emamectinB1a benzoate and emamectinB1b benzoate
- (lxxi) ferric chloride
- (lxxii) chlorinated paraffin (limited to C=10-13 and their compounds)
- (lxxiii) 1-octanol
- (lxxiv) p-octylphenol
- (lxxv) cadmium and its compounds
- (lxxvi) ε-caprolactam
- (lxxvii) calcium cyanamide
- (lxxviii) 2,4-xylenol
- (lxxix) 2,6-xylenol
- (lxxx) xylene
- (lxxxii) quinoline
- (lxxxiii) silver and its water-soluble compounds
- (lxxxiv) cumene
- (lxxxv) glyoxal
- (lxxxvi) glutaraldehyde
- (lxxxvii) cresol
- (lxxxviii) chromium and chromium(III) compounds
- (lxxxix) chromium(VI) compounds
- (lxxxix) chloroaniline
- (xc) 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine; atrazine
- (xci) 2-(4-chloro-6-ethylamino-1,3,5-triazin-2-yl)amino-2-methylpropionitrile; cyanazine
- (xcii) 4-chloro-3-ethyl-1-methyl-N-[4-(p-tolyloxy)benzyl]pyrazole-5-carboxamide; tolfenpyrad
- (xciii) 2-chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide; metolachlor
- (xciv) chloroethylene; vinyl chloride
- (xcv) 3-chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-α,α,α-trifluoro-2,6-dinitro-p-toluidine; fluazinam

(xcvi) 1-({2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl)methyl}-1H-1,2,4-triazole; difenoconazole  
 (xcvii) 1-chloro-2-(chloromethyl)benzene  
 (xcviii) chloroacetic acid  
 (xcix) ethyl chloroacetate  
 (c) 2-chloro-2',6'-diethyl-N-(2-propoxyethyl)acetanilide; pretilachlor  
 (ci) 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide;alachlor  
 (cii) 1-chloro-2,4-dinitrobenzene  
 (ciii) 1-chloro-1,1-difluoroethane; HCFC-142b  
 (civ) chlorodifluoromethane; HCFC-22  
 (cv) 2-chloro-1,1,1,2-tetrafluoroethane; HCFC-124  
 (cvi) chlorotrifluoroethane; HCFC-133  
 (cvii) chlorotrifluoromethane; CFC-13  
 (cviii) (RS)-2-(4-chloro-o-tolyloxy)propionic acid; mecoprop  
 (cix) o-chlorotoluene  
 (cx) p-chlorotoluene  
 (cxi) 2-chloro-4-nitroaniline  
 (cxii) 2-chloronitrobenzene  
 (cxiii) 2-chloro-4,6-bis(ethylamino)-1,3,5-triazine; shimazine; CAT  
 (cxiv) (RS)-2-[2-(3-chlorophenyl)-2,3-epoxypropyl]-2-ethylindane-1,3-dione; indanofan  
 (cxv) 4-(2-chlorophenyl)-N-cyclohexyl-N-ethyl-4,5-dihydro-5-oxo-1H-tetrazole-1-carboxamide; fentrazamide  
 (cxvi) (4RS,5RS)-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-1,3-thiazolidine-3-carboxamide; hexythiazox  
 (cxvii) (RS)-1-p-chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol; tebuconazole  
 (cxviii) 2-(4-chlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)hexanenitrile; myclobutanil  
 (cxix) (RS)-4-(4-chlorophenyl)-2-phenyl-2-(1H-1,2,4-triazol-1-ylmethyl)butyronitrile; fenbuconazole  
 (cxx) o-chlorophenol  
 (cxxi) p-chlorophenol  
 (cxxii) 2-chloropropionic acid  
 (cxxiii) 3-chloropropene; allyl chloride  
 (cxxiv) 1-(2-chlorobenzyl)-3-(1-methyl-1-phenylethyl)urea; cumyluron  
 (cxxv) chlorobenzene  
 (cxxvi) chloropentafluoroethane; CFC-115  
 (cxxvii) chloroform  
 (cxxviii) chloromethane; methyl chloride  
 (cxxix) 4-chloro-3-methylphenol  
 (cxxx) (4-chloro-2-methylphenoxy)acetic acid; MCP; MCPA  
 (cxxxi) 3-chloro-2-methyl-1-propene  
 (cxxxii) cobalt and its compounds  
 (cxxxiii) 2-ethoxyethyl acetate; ethylene glycol monoethyl ether acetate  
 (cxxxiv) vinyl acetate  
 (cxxxv) 2-methoxyethyl acetate; ethylene glycol monomethyl ether acetate  
 (cxxxvi) salicylaldehyde  
 (cxxxvii) cyanamide

(cxxxviii) (RS)-2-cyano-N-[(R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethylbutyramide; diclocymet

(cxxxix) (S)-alpha-cyano-3-phenoxybenzyl (1R,3S)-2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)cyclopropanecarboxylate; tralomethrin

(cxl) (RS)-alpha-cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate; fenpropathrin

(cxli) trans-1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea; cymoxanil

(cxlii) 2,4-diaminoanisole

(cxliii) 4,4'-diaminodiphenyl ether

(cxliv) inorganic cyanide compounds (except complex salts and cyanates)

(cxlv) 2-(diethylamino)ethanol

(cxlvi) O-2-diethylamino-6-methylpyrimidin-4-yl O,O-dimethyl phosphorothioate; pirimiphos-methyl

(cxlvii) S-4-chlorobenzyl N,N-diethylthiocarbamate; thiobencarb

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

(cxlix) tetrachloromethane

(cl) 1,4-dioxane

(cli) 1,3-dioxolane

(clii) 1,3-dicarbamoylthio-2-(N,N-dimethylamino)-propane; cartap

(cliii) cyclohex-1-ene-1,2-dicarboximidomethyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate; tetramethrin

(cliv) cyclohexylamine

(clv) N-(cyclohexylthio)phthalimide

(clvi) dichloroaniline

(clvii) 1,2-dichloroethane

(clviii) 1,1-dichloroethylene; vinyldene dichloride

(clix) cis-1,2-dichloroethylene

(clx) 3,3'-dichloro-4,4'-diaminodiphenylmethane

(clxi) dichlorodifluoromethane; CFC-12

(clxii) 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)benzamide; propyzamide

(clxiii) dichlorotetrafluoroethane; CFC-114

(clxiv) 2,2-dichloro-1,1,1-trifluoroethane; HCFC-123

(clxv) 2,4-dichlorotoluene

(clxvi) 1,2-dichloro-4-nitrobenzene

(clxvii) 1,4-dichloro-2-nitrobenzene

(clxviii) 3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide; iprodione

(clxix) 3-(3,4-dichlorophenyl)-1,1-dimethylurea; diuron; DCMU

(clxx) (RS)-2-(2,4-dichlorophenyl)-3-(1H-1,2,4-triazol-1-yl)propyl 1,1,2,2-tetrafluoroethyl ether; tetraconazole

(clxxi) mixture of (2RS,4RS)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole and (2RS,4SR)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole; propiconazole

(clxxii) 3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one; oxaziclomefone

(clxxiii) (RS)-3-(3,5-dichlorophenyl)-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione; vinclozolin

(clxxiv) 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea; linuron

(clxxv) 2,4-dichlorophenoxyacetic acid; 2,4-D; 2,4-PA

(clxxvi) 1,1-dichloro-1-fluoroethane; HCFC-141b  
 (clxxvii) dichlorofluoromethane; HCFC-21  
 (clxxviii) 1,2-dichloropropane  
 (clxxix) 1,3-dichloropropene; D-D  
 (clxxx) 3,3'-dichlorobenzidine  
 (clxxxii) dichlorobenzene  
 (clxxxiii) 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyloxy]acetophenone;  
 pyrazoxyfen  
 (clxxxiiii) 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl 4-toluenesulfonate;  
 pyrazolynate  
 (clxxxv) 2,6-dichlorobenzonitrile; dichlobenil; DBN  
 (clxxxvi) dichloropentafluoropropane; HCFC-225  
 (clxxxvii) dichloromethane; methylene dichloride  
 (clxxxviii) 2,3-dicyano-1,4-dithiaanthraquinone; dithianon  
 (clxxxix) N,N-dicyclohexylamine  
 (clxxxix) N,N-dicyclohexyl-2-benzothiazolesulfenamide  
 (cxc) dicyclopentadiene  
 (cxci) diisopropyl 1,3-dithiolan-2-ylidenemalonate; isoprothiolane  
 (cxcii) O-ethyl S,S-diphenyl phosphorodithioate; edifenphos; EDDP  
 (cxci) O,O-diethyl S-2-(ethylthio)ethyl phosphorodithioate; ethylthiometon;  
 disulfoton  
 (cxciv) O,O-diethyl S-(6-chloro-2,3-dihydro-2-oxobenzoxazoliny)methyl  
 phosphorodithioate; phosalone  
 (cxcv) O-2,4-dichlorophenyl O-ethyl S-propyl phosphorodithioate; prothiofos  
 (cxcvi) S-(2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl O,O-  
 dimethylphosphorodithioate; methidathion; DMTP  
 (cxcvii) O,O-dimethyl S-1,2-bis(ethoxycarbonyl)ethyl phosphorodithioate;  
 malathon; malathion  
 (cxcviii) O,O-dimethyl S-(N-methylcarbamoyl)methyl phosphorodithioate;  
 dimethoate  
 (cxcix) disodium 2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-  
 yl amino)benzenesulfonate]; C.I. Fluorescent 260  
 (cc) dinitrotoluene  
 (cci) 2,4-dinitrophenol  
 (ccii) divinylbenzene  
 (cciii) diphenylamine  
 (cciv) diphenyl ether  
 (ccv) 1,3-diphenylguanidine  
 (ccvi) 2,3-dihydro-2,2-dimethyl-7-benzo[b]furyl N-(dibutylamino)thio-N-  
 methylcarbamate; carbosulfan  
 (ccvii) 2,6-di-tert-butyl-4-cresol  
 (ccviii) 2,4-di-tert-butylphenol  
 (ccix) dibromochloromethane  
 (ccx) 2,2-dibromo-2-cyanoacetamide  
 (ccxi) dibromotetrafluoroethane; halone-2402  
 (ccxii) (RS)-O,S-dimethyl acetylphosphoramidothioate; acephate  
 (ccxiii) N,N-dimethylacetamide  
 (ccxiv) 2,4-dimethylaniline  
 (ccxv) 2,6-dimethylaniline  
 (ccxvi) N,N-dimethylaniline

(ccxvii) 5-dimethylamino-1,2,3-trithiane; thiocyclam  
(ccxviii) dimethylamine  
(ccxix) dimethyl disulfide  
(ccxx) water-soluble salts of dimethyldithiocarbamic acid  
(ccxxi) 2,2-dimethyl-2,3-dihydro-1-benzofuran-7-yl N-[N-(2-ethoxycarbonyl-ethyl)-N-isopropylsulfenamoyl]-N-methylcarbamate; benfuracarb  
(ccxxii) S-4-phenoxybutyl N,N-dimethylthiocarbamate; phenothiocarb  
(ccxxiii) N,N-dimethyldodecylamine  
(ccxxiv) N,N-dimethyldodecylamine N-oxide  
(ccxxv) dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate; trichlorfon; DEP  
(ccxxvi) 1,1-dimethylhydrazine  
(ccxxvii) 1,1'-dimethyl-4,4'-bipyridinium dichloride; paraquat; paraquat dichloride  
(ccxxviii) 3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate  
(ccxxix) dimethyl 4,4'-(o-phenylene)bis(3-thioallophanate); thiophanate-methyl  
(ccxxx) N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine  
(ccxxxii) 3,3'-dimethylbenzidine; o-tolidine  
(ccxxxiii) N,N-dimethylformamide  
(ccxxxiv) ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate; phenthoate; PAP  
(ccxxxv) bromine  
(ccxxxvi) water-soluble salts of bromic acid  
(ccxxxvii) 3,5-diiodo-4-octanoyloxybenzotrile; ioxynil octanoate  
(ccxxxviii) mercury and its compounds  
(ccxxxix) hydrogenated terphenyl  
(ccxl) styrene  
(ccxli) sodium salt of 2-sulfohexadecanoic acid 1-methyl ester  
(ccxlii) selenium and its compounds  
(ccxliii) dioxins  
(ccxliv) 2-thioxo-3,5-dimethyltetrahydro-2H-1,3,5-thiadiazine; dazomet  
(ccxlv) thiourea  
(ccxlvi) thiophenol  
(ccxlvii) O-1-(4-chlorophenyl)-4-pyrazolyl O-ethyl S-propyl phosphorothioate; pyraclofos  
(ccxlviii) O,O-diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate; diazinon  
(ccxlix) O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate; chlorpyrifos  
(cccli) O,O-diethyl O-5-phenyl-3-isoxazolyl phosphorothioate; isoxathion  
(cccli) O,O-dimethyl O-3-methyl-4-nitrophenyl phosphorothioate; fenitrothion; MEP  
(ccclii) O,O-dimethyl O-3-methyl-4-(methylthio)phenyl phosphorothioate; fenthion; MPP  
(cccliii) O-4-bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate; profenofos  
(cccliv) S-benzyl O,O-diisopropyl phosphorothioate; iprobenfos; IBP  
(ccclv) decabromodiphenyl ether  
(ccclvi) decanoic acid

(cclvii) decyl alcohol; decanol  
 (cclviii) 1,3,5,7-tetraazatricyclo[3.3.1.1(3.7)]decane; hexamethylenetetramine  
 (cclix) tetraethylthiuram disulfide; disulfiram  
 (cclx) tetrachloroisophthalonitrile; chlorothalonil; TPN  
 (cclxi) 4,5,6,7-tetrachloroisobenzofuran-1(3H)-one; phthalide  
 (cclxii) tetrachloroethylene  
 (cclxiii) tetrachlorodifluoroethane; CFC-112  
 (cclxiv) 2,3,5,6-tetrachloro-p-benzoquinone  
 (cclxv) tetrahydromethylphthalic anhydride  
 (cclxvi) 2,3,5,6-tetrafluoro-4-methylbenzyl (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; tefluthrin  
 (cclxvii) 3,7,9,13-tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12-tetraazapentadeca-3,12-diene-6,10-dione; thiodicarb  
 (cclxviii) tetramethylthiuram disulfide; thiram  
 (cclxix) 3,7,11,15-tetramethylhexadec-1-en-3-ol; isophytol  
 (cclxx) terephthalic acid  
 (cclxxi) dimethyl terephthalate  
 (cclxxii) water-soluble copper salts (except complex salts)  
 (cclxxiii) 1-dodecanol; n-dodecyl alcohol  
 (cclxxiv) tert-dodecanethiol  
 (cclxxv) sodium dodecyl sulfate  
 (cclxxvi) 3,6,9-triazaundecane-1,11-diamine; tetraethylenepentamine  
 (cclxxvii) triethylamine  
 (cclxxviii) triethylenetetramine  
 (cclxxix) 1,1,1-trichloroethane  
 (cclxxx) 1,1,2-trichloroethane  
 (cclxxxi) trichloroethylene  
 (cclxxxii) trichloroacetic acid  
 (cclxxxiii) 2,4,6-trichloro-1,3,5-triazine  
 (cclxxxiv) trichlorotrifluoroethane; CFC-113  
 (cclxxxv) trichloronitromethane; chloropicrin  
 (cclxxxvi) (3,5,6-trichloro-2-pyridyl)oxyacetic acid; triclopyr  
 (cclxxxvii) 2,4,6-trichlorophenol  
 (cclxxxviii) trichlorofluoromethane; CFC-11  
 (cclxxxix) 1,2,3-trichloropropane  
 (ccxc) trichlorobenzene  
 (ccxci) 1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione  
 (ccxcii) tributylamine  
 (ccxciii)  $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine; trifluralin  
 (ccxciv) 2,4,6-tribromophenol  
 (ccxcv) 3,5,5-trimethyl-1-hexanol  
 (ccxcvi) 1,2,4-trimethylbenzene  
 (ccxcvii) 1,3,5-trimethylbenzene  
 (ccxcviii) tolylene diisocyanate  
 (ccxcix) toluidine  
 (ccc) toluene  
 (ccci) toluenediamine  
 (cccii) naphthalene  
 (ccciii) 1,5-naphthalenediyl diisocyanate  
 (ccciv) lead

(cccv) lead compounds  
 (cccvii) hexamethylene diacrylate  
 (cccvi) zirconium dichloride oxide  
 (cccviii) nickel  
 (cccix) nickel compounds  
 (cccx) nitilotriacetic acid  
 (cccxi) o-nitroanisole  
 (cccxii) o-nitroaniline  
 (cccxiii) nitroglycerin  
 (cccxiv) p-nitrochlorobenzene  
 (cccxv) o-nitrotoluene  
 (cccxvi) nitrobenzene  
 (cccxvii) nitromethane  
 (cccxviii) carbon disulfide  
 (cccxi) 1-nonanol; n-nonyl alcohol  
 (cccxx) nonylphenol  
 (cccxxi) vanadium compounds  
 (cccxxii) 5'-[N,N-bis(2-acetyloxyethyl)amino]-2'-(2-bromo-4,6-dinitrophenylazo)-4'-methoxyacetanilide  
 (cccxxiii) 2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine; simetryn  
 (cccxxiv) 1,3-bis[(2,3-epoxypropyl)oxy]benzene  
 (cccxxv) bis(8-quinolinolato)copper; oxine-copper  
 (cccxxvi) 3,6-bis(2-chlorophenyl)-1,2,4,5-tetrazine; clofentezine  
 (cccxxvii) 1,2-bis(2-chlorophenyl)hydrazine  
 (cccxxviii) zinc bis(N,N'-dimethyldithiocarbamate); ziram  
 (cccxxix) N,N'-ethylenebis(thiocarbamoylthiozinc)bis(N,N'-dimethyldithiocarbamate); polycarbamate  
 (cccxxx) bis(1-methyl-1-phenylethyl) peroxide  
 (cccxxxi) S,S-bis(1-methylpropyl) O-ethyl phosphorodithioate; cadusafos  
 (cccxxxii) arsenic and its inorganic compounds  
 (cccxxxiii) hydrazine  
 (cccxxxiv) methyl 4-hydroxybenzoate  
 (cccxxxv) N-(4-hydroxyphenyl)acetamide  
 (cccxxxvi) hydroquinone  
 (cccxxxvii) 4-vinyl-1-cyclohexene  
 (cccxxxviii) 2-vinylpyridine  
 (cccxxxix) N-vinyl-2-pyrrolidone  
 (cccxl) biphenyl  
 (cccxli) piperazine  
 (cccxlii) pyridine  
 (cccxliii) pyrocatechol  
 (cccxliv) phenyloxirane  
 (cccxlv) phenylhydrazine  
 (cccxlvi) 2-phenylphenol  
 (cccxlvii) N-phenylmaleimide  
 (cccxlviii) phenylenediamine  
 (cccxlix) phenol  
 (cccl) 3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; permethrin  
 (cccli) 1,3-butadiene

(ccclii) diallyl phthalate  
(cccliii) diethyl phthalate  
(cccliv) di-n-butyl phthalate  
(ccclv) bis(2-ethylhexyl)phthalate  
(ccclvi) n-butyl benzyl phthalate  
(ccclvii) 2-tert-butylimino-3-isopropyl-5-phenyltetrahydro-4H-1,3,5-thiadiazin-4-one; buprofezin  
(ccclviii) N-tert-butyl-N'(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide; tebufenozide  
(ccclix) n-butyl-2,3-epoxypropyl ether  
(ccclx) methyl N-[1-(N-n-butylcarbamoyl)-1H-2-benzimidazolyl]carbamate; benomyl  
(ccclxi) butyl(R)-2-[4-(4-cyano-2-fluorophenoxy)phenoxy]propionate; cyhalofop-butyl  
(ccclxii) 1-tert-butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea; diafenthiuron  
(ccclxiii) 5-tert-butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazol-2(3H)-one; oxadiazon  
(ccclxiv) tert-butyl 4-({[(1,3-dimethyl-5-phenoxy-4-pyrazolyl)methylidene]aminoxy}methyl)benzoate; fenpyroximate  
(ccclxv) butylhydroxyanisole; BHA  
(ccclxvi) tert-butyl hydroperoxide  
(ccclxvii) o-sec-butylphenol  
(ccclxviii) 4-tert-butylphenol  
(ccclxix) 2-(4-tert-butylphenoxy)cyclohexyl 2-propynyl sulfite; propargite; BPPS  
(ccclxx) 2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloro-3(2H)-pyridazinone; pyridaben  
(ccclxxi) N-(4-tert-butylbenzyl)-4-chloro-3-ethyl-1-methylpyrazole-5-carboxamide; tebufenpyrad  
(ccclxxii) N-(tert-butyl)-2-benzothiazolesulfenamide  
(ccclxxiii) 2-tert-butyl-5-methylphenol  
(ccclxxiv) hydrogen fluoride and its water-soluble salts  
(ccclxxv) 2-butenal  
(ccclxxvi) N-butoxymethyl-2-chloro-2',6'-diethylacetanilide; butachlor  
(ccclxxvii) furan  
(ccclxxviii) polymer of N,N'-propylenebis(dithiocarbamic acid)and zinc; propineb  
(ccclxxix) 2-propyn-1-ol  
(ccclxxx) bromochlorodifluoromethane; halone-1211  
(ccclxxxii) bromodichloromethane  
(ccclxxxiii) bromotrifluoromethane; halone-1301  
(ccclxxxiiii) 5-bromo-3-sec-butyl-6-methyl-1,2,3,4-tetrahydropyrimidine-2,4-dione; bromacil  
(ccclxxxiv) 1-bromopropane  
(ccclxxxv) 2-bromopropane  
(ccclxxxvi) bromomethane; methyl bromide  
(ccclxxxvii) hexakis(2-methyl-2-phenylpropyl)distannoxane; fenbutatin oxide  
(ccclxxxviii) 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3-oxide; endosulfan

(ccclxxxix) hexadecyltrimethylammonium chloride  
(cccxc) hexamethylenediamine  
(cccxc) hexamethylene diisocyanate  
(cccxcii) n-hexane  
(cccxciii) betanaphthol  
(cccxciv) beryllium and its compounds  
(cccxcv) water-soluble salts of peroxodisulfuric acid  
(cccxcvi) perfluoro(octane-1-sulfonic acid); PFOS  
(cccxcvii) benzylidene trichloride  
(cccxcviii) benzyl chloride  
(cccxcix) benzaldehyde  
(cd) benzene  
(cdi) 1,2,4-benzenetricarboxylic 1,2-anhydride  
(cdi) 2-(2-benzothiazolyloxy)-N-methylacetanilide; mefenacet  
(cdiii) benzophenone  
(cdiv) pentachlorophenol  
(cdv) boron compounds  
(cdvi) polychlorinated biphenyls; PCBs  
(cdvii) poly(oxyethylene)alkyl ether (alkyl C=12-15)  
(cdviii) poly(oxyethylene)octylphenyl ether  
(cdx) sodium poly(oxyethylene) dodecyl ether sulfate  
(cdx) poly(oxyethylene)nonylphenyl ether  
(cdx) formaldehyde  
(cdxii) manganese and its compounds  
(cdxiii) phthalic anhydride  
(cdxiv) maleic anhydride  
(cdxv) methacrylic acid  
(cdxvi) 2-ethylhexyl methacrylate  
(cdxvii) 2,3-epoxypropyl methacrylate  
(cdxviii) 2-(dimethylamino)ethyl methacrylate  
(cdxix) n-butyl methacrylate  
(cdxx) methyl methacrylate  
(cdxxi) 4-methylideneoxetan-2-one  
(cdxxii) (Z)-2'-methylacetophenone 4,6-dimethyl-2-pyrimidinylhydrazone;  
ferimzone  
(cdxxiii) methylamine  
(cdxxiv) methyl isothiocyanate  
(cdxxv) 2-isopropylphenyl N-methylcarbamate; isoprocab; MIPC  
(cdxxvi) 2,3-dihydro-2,2-dimethyl-7-benzob[b]furanyl N-methylcarbamate;  
carbofuran  
(cdxxvii) 1-naphthyl N-methylcarbamate; carbaryl; NAC  
(cdxxviii) 2-sec-butylphenyl N-methylcarbamate; fenobucarb; BPMC  
(cdxxix) methyl 3-chloro-5-(4,6-dimethoxy-2-pyrimidinylcarbamoylsulfamoyl)-  
1-methylpyrazole-4-carboxylate; halosulfuron-methyl  
(cdxxx) methyl (S)-7-chloro-2,3,4a,5-tetrahydro-2-[methoxycarbonyl(4-  
trifluoromethoxyphenyl) carbamoyl]indeno[1,2-e][1,3,4]oxadiazine-4a-  
carboxylate; indoxacarb  
(cdxxxi) methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-  
methoxyacrylate; azoxystrobin  
(cdxxxii) 3-methyl-1,5-di(2,4-xylyl)-1,3,5-triazapenta-1,4-diene; amitraz

(cdxxxiii) N-methyldithiocarbamic acid; carbam  
 (cdxxxiv) methyl-N',N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooxamimidate; oxamyl  
 (cdxxxv) 36methyl 2-(4,6-dimethoxy-2-pyrimizinyloxy)-6-[1-(methoxyimino)ethyl]benzoate; pyriminobac-methyl  
 (cdxxxvi)  $\alpha$ -methylstyrene  
 (cdxxxvii) 3-methylthiopropional  
 (cdxxxviii) methylnaphthalene  
 (cdxxxix) 3-methylpyridine  
 (cdxl) 1-methyl-1-phenylethyl hydroperoxide  
 (cdxli) 2-(1-methylpropyl)-4,6-dinitrophenol  
 (cdxlii) 2-methyl-N-[3-(1-methylethoxy)phenyl]benzamide; mepronil  
 (cdxliii) S-methyl-N-(methylcarbamoyloxy)thioacetimidate; methomyl  
 (cdxliv) methyl (E)-methoxyimino-2-[[[(E)-1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl] phenyl]acetate; trifloxystrobin  
 (cdxlv) methyl (E)-methoxyimino[2-(o-tolyloxymethyl)phenyl]acetate; kresoxim-methyl  
 (cdxlvii) 4,4'-methylenedianiline  
 (cdxlviii) methylenebis(4,1-cyclohexylene)diisocyanate  
 (cdxlviii) methylenebis(4,1-phenylene) diisocyanate  
 (cdxlix) 3-methoxycarbonylaminophenyl 3'-methylcarbanilate; phenmedipham  
 (cdl) O-3-tert-butylphenyl N-(6-methoxy-2-pyridyl)-N-methylthiocarbamate; pyributicarb  
 (cdli) 2-methoxy-5-methylaniline  
 (cdlii) 2-mercaptobenzothiazole  
 (cdliii) molybdenum and its compounds  
 (cdliv) 2-(morpholinodithio) benzothiazole  
 (cdlv) morpholine  
 (cdlvi) aluminium phosphide  
 (cdlvii) dimethyl 2,2-dichlorovinyl phosphate; dichlorvos; DDVP  
 (cdlviii) tris(2-ethylhexyl) phosphate  
 (cdlix) tris(2-chloroethyl)phosphate  
 (cdlx) tritolyl phosphate  
 (cdlxi) triphenyl phosphate  
 (cdlxii) tri-n-butyl phosphate

Appended Table 2 (Re: Article 2)

- (i) acetamide
- (ii) p-anisidine
- (iii) 5-amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-ethylsulfinyl-1H-pyrazole-3-carbonitrile; ethiprole
- (iv) 3-amino-1H-1,2,4-triazole; amitrole
- (v) 3'-amino-4'-methoxyacetanilide
- (vi) 4-allyl-1,2-dimethoxybenzene
- (vii) sodium alkyl sulfate (limited to alkyl C=16-18)
- (viii) urethane
- (ix) N-ethylaniline
- (x) 2-ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine; ametryn
- (xi) ethyl 3-phenylcarbamoyloxycarbanilate; desmedipham

(xii) N-[3-(1-ethyl-1-methylpropyl)-1,2-oxazol-5-yl]-2,6-dimethoxybenzamide; isoxaben

(xiii) 5-ethoxy-3-trichloromethyl-1,2,4-thiadiazole; echlomezol

(xiv) 1,2-epoxy-3-(tolylloxy)propane

(xv) 4,4'-oxybisbenzenesulfonylhydrazide

(xvi) chloroacetaldehyde

(xvii) (RS)-1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoromethoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea; novaluron

(xviii) (1'S-trans)-7-chloro-2',4,6-trimethoxy-6'-methylspiro[benzofuran-2(3H),1'-cyclohex-2'-ene]-3,4'-dione; griseofulvin

(xix) 1-chloronaphthalene

(xx) benzyl acetate

(xxi) safrole

(xxii) (S)-alpha-cyano-3-phenoxybenzyl (S)-2-(4-chlorophenyl)-3-methylbutyrate; esfenvalerate

(xxiii) alpha-cyano-4-fluoro-3-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; cyfluthrin

(xxiv) trans-1,2-dichloroethylene

(xxv) dichloroacetic acid

(xxvi) 1-(3,5-dichloro-2,4-difluorophenyl)-3-(2,6-difluorobenzoyl)urea; teflubenzuron

(xxvii) 1,3-dichloro-5,5-dimethylimidazolidine-2,4-dione

(xxviii) 2-[4-(2,4-dichloro-m-toluoyl)-1,3-dimethyl-5-pyrazolyloxy]-4-methylacetophenone; benzofenap

(xxix) 2,4-dichloro-1-nitrobenzene

(xxx) 2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide; chloramphenicol

(xxxii) N-(2,3-dichloro-4-hydroxyphenyl)-1-methylcyclohexanecarboxamide; fenhexamid

(xxxiii) 2,4'-dichloro- $\alpha$ -(5-pyrimidinyl)benzhydryl alcohol; fenarimol

(xxxiiii) 2-(2,4-dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)-2-hexanol; hexaconazole

(xxxv) 2,4-dichlorophenol

(xxxvi) (RS)-2-(2,4-dichlorophenoxy)propionic acid; dichlorprop

(xxxvii) 1,3-dichloro-2-propanol

(xxxviii) (RS)-1-[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl]-3-(2,6-difluorobenzoyl)urea; lufenuron

(xxxix) 3,3'-dichlorobenzidine dihydrochloride

(xl) 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

(xli) disodium 8-(3,3'-dimethyl-4'-{4-[(p-tolyl)sulfonyloxy]phenylazo}-1,1'-biphenyl-4-ylazo)-7-hydroxy-1,3-naphthalenedisulfo; C.I. Acid Red 114

(xlii) 2,4-dinitroaniline

(xliii) dinitronaphthalene

(xliv) m-dinitrobenzene

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

(xlvi) 1,2-dibromoethane; EDB; ethylene dibromide

(xlvii) 1,4-dibromobutane

(xlviii) 2,3-dibromo-1-propanol

(xlviii) 1,3-dibromopropane

(xlix) dibenzyl ether  
(l) 2,3-dimethylaniline  
(li) [4-[[4-(dimethylamino)phenyl](phenyl)methylidene]cyclohexa-2,5-dien-1-ylidene](dimethyl)ammonium chloride; malachite green hydrochloride  
(lii) dimethylcarbamoil chloride  
(liii) O,O-dimethyl-O-(3-methyl-4-methylsulfinylphenyl)-thiophosphate; mesulfenfos  
(liv) brominated biphenyl (limited to Br=2-5 and their compounds)  
(lv) 2-(1,3-thiazol-4-yl)-1H-benzoimidazole  
(lvi) thioacetamide  
(lvii) 2-(thiocyanatomethylthio)-1,3-benzothiazole; TCMTB  
(lviii) O,O-diethyl O-6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl phosphorothioate; pyridaphenthion  
(lix) O-3,5,6-trichloro-2-pyridyl O,O-dimethyl phosphorothioate; chlorpyrifos-methyl  
(lx) 1,1,2,2-tetrachloroethane  
(lxi) 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  
(lxii) tetrabromomethane  
(lxiii) o-terphenyl  
(lxiv) 1,1,1-trichloro-2,2-bis(4-methoxyphenyl)ethane; methoxychlor  
(lxv) iron tris(N,N-dimethyldithiocarbamate); ferbam  
(lxvi) tribromomethane; bromoform  
(lxvii) 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  
(lxviii) sodium 1,1'-biphenyl-2-olate  
(lxix) m-nitroaniline  
(lxx) N-nitrosodiphenylamine  
(lxxi) m-nitrotoluene  
(lxxii) p-nitrophenol  
(lxxiii) palygorskite; attapulgite  
(lxxiv) 3,3-bis(4-hydroxyphenyl)-1,3-dihydroisobenzofuran-1-one; phenolphthalein  
(lxxv) 4,4'-bipyridyl  
(lxxvi) 1-(4-biphenyloxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanol; bitertanol  
(lxxvii) p-phenetidine  
(lxxviii) dicyclohexyl phthalate  
(lxxix) 1,3-propanesultone  
(lxxx) N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]imidazole-1-carboxamide; prochloraz  
(lxxxi) 3-bromo-1-propene; allyl bromide  
(lxxxii) hexachloroethane  
(lxxxiii) hexachlorocyclopentadiene  
(lxxxiv) 1,4,5,6,7,7-hexachlorobicyclo[2.2.1]-5-heptene-2,3-dicarboxylic acid; chlorendic acid  
(lxxxv) hexadecyltrimethylammonium bromide  
(lxxxvi) 5-benzyl-3-furylmethyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate; resmethrin

- (lxxxvii) p-benzoquinone
- (lxxxviii) pentachloronitrobenzene; quintozene; PCNB
- (lxxxix) ammonium pentadecafluorooctanoate
- (xc) N-methylaniline
- (xci) 6-methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one
- (xcii) 2-methyl-5-nitroaniline
- (xciii) methylhydrazine
- (xciv) 2-methyl-1,1'-biphenyl-3-ylmethyl (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; bifenthrin
- (xcv) methyl benzoimidazol-2-ylcarbamate; carbendazim
- (xcvi) 4,4'-methylenebis(N,N-dimethylaniline)
- (xcvii) 4,4'-methylenebis(2-methylcyclohexanamine)
- (xcviii) hydrazine sulfate
- (xcix) 2-ethylhexyl diphenyl phosphate
- (c) di-n-butyl phenyl phosphate