KUBOTA Group

# Green Procurement Guidelines

（Ver. 3）

April 2010

KUBOTA Corporation

## 1. Introduction

The KUBOTA Group bases the company activities on our “Corporate Mission Statement”, called the “Management Principles”.

[Management Principles]

The KUBOTA Group contributes to the development of the society and the preservation of the earth’s environment through its products, technologies, and services that provide the foundation for society and for affluent lifestyles.

These Guidelines summarize the green procurement standards for suppliers, as part of the commitment of the KUBOTA Group to protecting the earth’s environment.

The KUBOTA Group expresses our sincere gratitude to all suppliers for their past and future understanding and cooperation.

## 2. The KUBOTA Group’s Environmental Management Policy

The KUBOTA Group has adopted an Environmental Charter and Environmental Action Guidelines, which are based on its Management Principles.

**KUBOTA Group Environment Charter**

The KUBOTA Group aims to create a society where sustainable development is possible on a global scale and conducts its operations with concern for preserving the natural environment.

**KUBOTA Group Environmental Action Guidelines**

1. The KUBOTA Group takes initiatives for the protection of the natural environment in all its activities.
   - ① By setting specific goals on its own initiative while remaining in compliance with all laws and regulations
   - ② By promoting initiatives at all levels of its operations, from product development to production, sales, distribution, and services
   - ③ By taking a proactive stance toward securing the understanding of the importance of protecting the environment among its suppliers and actively obtaining their cooperation
   - ④ By promoting activities friendly to the natural environment and biodiversity.

2. The KUBOTA Group works to protect the environment and create a symbiotic relationship with the community.
   - ① By participating in community beautification and environmental enlightenment

activities in its role as a good corporate citizen

② By engaging in business activities that take full account of environment protection in the community, including pollution prevention

3. The KUBOTA Group undertakes systematic initiatives to protect the environment.
   ① By conducting environmental impact assessments, working to reduce environmental risk, and preventing environmental pollution
   ② By working to solve environmental issues, including prevention of global warming, creation of a recycling society, and reduction of the release of harmful substances

4. The KUBOTA Group implements a thorough program of environmental management.
   ① By introducing environmental management systems and promoting initiatives in everyday operations
   ② By proactively monitoring whether the “Plan, Do, Check, Action (PDCA)” cycle is functioning in environmental management activities
   ③ By promoting enlightenment and educational activities related to the environment and working to heighten awareness of the environment

5. The KUBOTA Group is proactive in communicating its environmental perspective.
   ① By issuing timely and easily understandable environmental information
   ② By gathering environmental information from a broad range of stakeholders and reviewing as well as upgrading its environmental protection activities

## 3. KUBOTA Group Green Procurement Guidelines

### Scope of Application

“KUBOTA Group Green Procurement Guidelines” apply to products, raw materials, components, secondary materials, packaging materials and other items (all collectively referred to in this document as “products”) procured by the KUBOTA Group.

### Definition

“Green procurement” denotes the procurement of products with a reduced environment impact from parties that engage in environmental activities.

### Basic Stance on Green Procurement

The KUBOTA Group is committed to the procurement of products with a reduced environmental impact from suppliers that engage in environmental activities, as part of its commitment to providing society with products that are friendly to global and local

environments.

**Green Procurement Standards**

To enable green procurement, the following standards for suppliers are set out:

Standards for suppliers

| Item | | A supplier for the KUBOTA Group should: |
|---|---|---|
| 1 | Environmental management system | (1) Have obtained ISO 14001 certification.<br>(2) Have obtained third-party certifications, such as the Eco Stage certification and the Eco Action 21 certification. |
| 2 | Control of chemical substances contained in products | (1) Be ready to cooperate in investigations of the chemical substances contained in products in response to our requests.<br>(2) Have required your suppliers to control chemical substances contained in products properly. |
| 3 | Corporate philosophy and policy | (1) Have adopted a corporate philosophy or policy relating to the environment. |
| 4 | Organization and structure | (1) Have made clear which organization and individuals are responsible for environmental management. |
| 5 | Compliance | (1) Have identified environment-related laws and regulations, including chemical substance controls, that are relevant to their business activities and practice compliance.<br>(2) Have not been subject to any penalty for the violation of any law or regulation in the past two years. |
| 6 | Reduction of environmental impacts | (1) Have adopted self-control standards for the prevention of air pollution, water pollution, noise and vibration to implement the voluntary control.<br>(2) Have set a goal for reducing energy consumption and greenhouse gas emissions at the stages of production and distribution to encourage improvements.<br>(3) Have set a goal for waste reduction and recycling into resources to encourage improvements.<br>(4) Engage in activities designed to reduce the environmental impact, such as the simplification of packing and packaging materials and the establishment of a system for collecting such materials.<br>(5) Engage in activities designed for conservation of biodiversity. |

| | | |
|---|---|---|
| 7 | Education | (1) Provide environmental education for employees and undertake activities that improve awareness of the environment. |
| 8 | Information disclosure | (1) Make environmental information available on the Internet, in environmental reports or by other means. |

To enable preferential procurement of eco-friendly products, the eco-friendliness standards for products procured from suppliers are set out as follows.

Eco-friendliness standards for products

| Item | | A product for the KUBOTA Group should: |
|---|---|---|
| 1 | Resource saving, recycling and durability | (1) Be smaller in size and weight than other products with comparable functions, containing reduced quantities of materials and components.<br>(2) Adopt recycled materials and components.<br>(3) Have a longer life span than other products with comparable functions. |
| 2 | Energy saving and greenhouse gas reduction | (1) Be superior in energy efficiency to other products with comparable functions.<br>(2) Emit lower greenhouse gases than other products with comparable functions.<br>(3) Excel in logistical efficiency. |
| 3 | Substances of Concern (in products and packaging materials) | (1) Have all chemical substances that are contained in both the product itself and in its packaging materials identified and be ready to answer the investigation request using the industry-standard format.<br>(2) Contain none of the substances specified in Japanese laws listed below nor the substances specified separately by the procurement sections:<br>- Industrial Safety and Health Act: Substances subject to prohibition of manufacturing<br>- Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.: Class I specified chemical substances<br>- Poisonous and Deleterious Substances Control Law: Specified poisonous substances<br>- Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures: |

| | | |
|---|---|---|
| | | Specified substances (listed in Groups I and II in Annex A, Groups I, II and III in Annex B, Groups II and III in Annex C and Group I in Annex E of the Montreal Protocol on Substances That Deplete the Ozone Layer)<br>(3) Have controlled and reduced the use of substances specified in Japanese and European laws listed below and the substances specified separately by the procurement sections:<br>- Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (commonly known as the PRTR Act): Specific Class I designated chemical substances<br>- PRTR Act: Class I designated chemical substances<br>- Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.: Class II specified chemical substances<br>- Poisonous and Deleterious Substances Control Act: Poisonous substances<br>- Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures: Specified substances (listed in Group I in Annex C of the Montreal Protocol on Substances That Deplete the Ozone Layer)<br>- The substances restricted by EU RoHS Directive<br>- The substances specified by EU REACH Regulation in ANNEX XIV (substances subject to authorisation), in the candidate list for authorisation (SVHC), and in ANNEX XVII (substances subject to restriction)<br>Explanatory note<br>Reference: List of Major Chemical Substances of Legal Control<br>Table 1: Substances to be prohibited (referred to above (2))<br>Table 2, 3, 4: Substances to be controlled (referred to above (3)) |
| 4 | Recycling and disposal | (1) Have higher waste recycling potential than other products with comparable functions. |

| | | |
|---|---|---|
| | | (2) Have a waste collection, recovery and treatment system.<br>(3) Be free from discharge of any hazardous substance at the time of disposal. |
| 5 | Packaging materials | (1) Be packed and packaged using simplified materials.<br>(2) Have a system for collection and recovery of packaging materials. |
| 6 | Information disclosure | (1) Have environmental impact information disclosed. |

## 4. Use of the Guidelines

**Request for Self Assessment and Improvement**

The KUBOTA Group asks suppliers to perform a self assessment. To facilitate this, the KUBOTA Group's procurement sections will send each of them a survey sheet prepared on the basis of its green procurement standards. The results of self assessment will be aggregated at the procurement sections to enable a comprehensive evaluation. Each supplier will be given a request for improvement based on the results of assessment. No information about assessment results will be disclosed to outsiders.

**Request for Cooperation in the Fact-Finding Survey**

Depending on the results of the assessment described above, some personnel from the KUBOTA Group may visit suppliers' establishments to conduct interviews. We ask for the cooperation of suppliers in this event.

## 5. Other

These Guidelines may be subject to revision and modification as appropriate, following amendments to laws, regulations and internal rules.

April 2008 Established
April 2010 Revised to Ver.3

< KUBOTA Group Procurement Guidelines Appendix >
April 2009 Established
April 2010 Revised to Ver.2

# List of Major Chemical Substances of Legal Control

April 2010

KUBOTA Corporation

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Attention

This list of Chemical Substances is created based on the related regulations, but it does not guarantee that these contents are as those statutes. Kubota Corporation shall not be responsible for the accuracy of the translation of substance name provided in the list. When you use it, please confirm the texts of the related regulations suitably.

＜The main revision points in April 2010＞

- Table 1-②：Substances were revised and 12 substances were added.
- Table 2-①：Specific Class I Chemical Substances disignated by PRTR Law were revised.
- Table 2-③：Poisonous and Deleterious Substances were revised.
- Table 3-①：Class I Chemical Substances disignated by PRTR Law were revised.
- Table 4-②：Substances of Very High Concern (SVHC) designated by EU REACH were revised.
- Table 4-③：Substances listed in ANNEX ⅩⅦ of EU REACH were added.

## Table 1（Prohibited Substances）

**①The Industrial Safety and Health Act of Japan：Substances subject to prohibition of manufacturing**

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-1-1 | 7723-14-0 | Yellow phosphorus matches | | |
| 1-1-2 | 92-87-5 | Benzidine and its salts | 4,4'-Diamino-1,1'-biphenyl | more than 1% |
| 1-1-3 | 92-67-1 | 4-aminodiphenyl and its salts | | more than 1% |
| 1-1-4 | 92-93-3 | 4-nitrodiphenyl and its salts | 4-Nitrobiphenyl,<br>p-Nitrobiphenyl | more than 1% |
| 1-1-5 | 1332-21-4 | Asbestos | | more than 0.1% |
| 1-1-6 | 542-88-1 | Bis (chloromethyl) ether | Oxybis(chloromethane) | more than 1% |
| 1-1-7 | 91-59-8 | Beta-naphthylamine and its salts | 2-Naphthylamine | more than 1% |
| 1-1-8 | 71-43-2 | Gum containing benzene, in which the volume of contained benzene exceeds 5 % of the solvent (including diluents) of the said gum | | |



## Table 1（Prohibited Substances）

**②Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. of Japan ：Class I Specified Chemical Substances**

Included amendments up to the Enforcement Order issued in 2010

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-2-1 | 1336-36-3 | Polychlorinated biphenyls | Polychlorobiphenyl,<br>PCB,<br>PCBS | |
| 1-2-2 | 70776-03-3 | Polychlorinated naphthalenes (limited to those containing three or more chlorine atoms) | | |
| 1-2-3 | 118-74-1 | Hexachlorobenzene | HCB, Perchlorobenzene | |
| 1-2-4 | 309-00-2 | 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethano-naphthalene | Aldrin,<br>HHDN | |
| 1-2-5 | 60-57-1 | 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano naphthalene | Dieldrin | |
| 1-2-6 | 72-20-8 | 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethano naphthalene | Endrin | |
| 1-2-7 | 50-29-3 | 1,1,1-Trichloro-2,2-bis(4-chlorophenyl) ethane | DDT,<br>Chlorophenothane,<br>1,1'-(2,2,2-Trichloroethylidene)bis(4-Chlorobenzene) | |
| 1-2-8 | 57-74-9 | Mixture of 1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene and their analogous compounds | Chlordane | |
| 1-2-9 | 76-44-8 | | Heptachlor | |
| 1-2-10 | 56-35-9 | Bis(tributyltin) oxide | TBTO | |
| 1-2-11 | 620-91-7 | N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-dixylyl-p-phenylenediamine | | |
| 1-2-12 | 732-26-3 | 2,4,6-Tri- tert-butylphenol | | |
| 1-2-13 | 8001-35-2 | Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane | Toxaphene | |
| 1-2-14 | 2385-85-5 | Dodecachloropentacyclo [5.3.0.02,6.03,9.04,8] decane | Mirex | |
| 1-2-15 | 115-32-2 | 2,2,2- Trichloro-1,1- bis(4-chlorophenyl) ethanol | Kelthane,<br>Dicofol | |
| 1-2-16 | 87-68-3 | Hexachlorobuta-1,3-diene | | |
| 1-2-17 | 3846-71-7 | Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- | | |
| 1-2-18 | 1763-23-1 | Perfluoro(octane-1-sulfonic acid) or its salts | PFOS | |
| 1-2-19 | 307-35-7 | Perfluoro(octane-1-sulfonyl) fluoride | PFOSF | |
| 1-2-20 | 608-93-5 | Pentachlorobenzene | | |
| 1-2-21 | 319-84-6 | r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane | alpha-Hexachlorocyclohexane | |
| 1-2-22 | 319-85-7 | r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane | beta-Hexachlorocyclohexane | |
| 1-2-23 | 319-86-8 | r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane | gamma-Hexachlorocyclohexane,<br>Lindane | |

## Table 1（Prohibited Substances）

**②Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. of Japan ：Class I Specified Chemical Substances**

Included amendments up to the Enforcement Order issued in 2010

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-2-24 | 143-50-0 | Decachloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)] decan-5-one | Chlordecone | |
| 1-2-25 | 36355-01-8 | Hexabromobiphenyl | | |
| 1-2-26 | 40088-47-9 | Tetrabromo(phenoxybenzene) | Tetrabromodiphenyl ether | |
| 1-2-27 | 32534-81-9 | Pentabromo(phenoxybenzene) | Pentabromodiphenyl ether | |
| 1-2-28 | 31153-30-7 | Hexabromo(phenoxybenzene) | Hexabromodiphenyl ether | |
| 1-2-29 | 68928-80-3 | Heptabromo(phenoxybenzene) | Heptabromodiphenyl ether | |



## Table 1（Prohibited Substances）

**③Poisonous and Deleterious Substances Control Law of Japan：Specified Poisonous Substances**

**（Substances Subject to Prohibition of Manufacturing, Importing and Use）**

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-3-1 | 152-16-9 | Octamethyl pyrophosphoramide | Schradan | |
| | | Preparations containing Octamethyl pyrophosphoramide | | |
| 1-3-2 | — | Tetraalkyl lead | | |
| | 1762-26-1 | Ethyltrimethyl lead | | |
| | 1762-27-2 | Diethyldimethyl lead | | |
| | 1762-28-3 | Triethylmethyl lead | | |
| | 75-74-1 | Tetramethyl lead | | |
| | 78-00-2 | Tetraethyl lead | | |
| | | Preparations containing Tetraalkyl lead | | |
| 1-3-3 | 56-38-2 | Diethyl paranitrophenyl thiophosphate | O,O-Diethyl-O-(p-nitrophenyl)phosphorothioate, Parathion | |
| | | Preparations containing Diethyl paranitrophenyl thiophosphate | | |
| 1-3-4 | 8022-00-2 | Dimethylethylmercaptoethyl thiophosphate | Demeton-methyl | |
| | | Preparations containing Dimethylethylmercaptoethyl thiophosphate | | |
| 1-3-5 | 13171-21-6 | Dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate | Phosphamidon | |
| | | Preparations containing Dimethyl-(diethylamido-2-chlorocrotonyl)-phosphate | | |
| 1-3-6 | 298-00-0 | Dimethyl paranitrophenyl thiophosphate | Parathion-methyl | |
| | | Preparations containing Dimethyl paranitrophenyl thiophosphate | | |
| 1-3-7 | 107-49-3 | Tetraethyl pyrophosphate | TEPP | |
| | | Preparations containing Tetraethy pyrophosphate | | |
| 1-3-8 | 144-49-0 | Monofluoro acetate | Fluoroacetic acid | |
| | | Preparations containing Monofluoro acetate and its salts | | |
| 1-3-9 | 640-19-7 | Fluoroacetamide | Monofluoroacetamide | |
| 1-3-10 | 62-74-8 | Monofluoro acetates | Sodium fluoroacetate | |
| | | Preparations containing Monofluoroacetamide | | |
| 1-3-11 | 20859-73-8 | Aluminium phosphide | | |
| | | Preparations containing Aluminium phosphide and its degradation accelerator | | |

## Table 1（Prohibited Substances）

### ④Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures of Japan：Specified Substances

Montreal Protocol Annex A Group Ⅰ, Ⅱ, Annex B Group Ⅰ, Ⅱ, Ⅲ, Annex C Group Ⅱ, Ⅲ, Annex E Group Ⅰ

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-4-1 | 75-69-4 | Trichlorofluoromethane | CFC-11 | A-Ⅰ |
| 1-4-2 | 75-71-8 | Dichlorodifluoromethane | CFC-12 | A-Ⅰ |
| 1-4-3 | — | Trichlorotrifluoroethane | CFC-113 | A-Ⅰ |
| | 26523-64-8 | Trichlorotrifluoroethane | | |
| | 76-13-1 | 1,1,2 Trichloro-1,2,2 trifluoroethane | | |
| | 354-58-5 | 1,1,1 Trichlorotrifluoroethane | | |
| 1-4-4 | — | Dichlorotetrafluoroethane | CFC-114 | A-Ⅰ |
| | 1320-37-2 | Dichlorotetrafluoroethane | | |
| | 76-14-2 | 1,2 Dichloro-1,1,2,2tetrafluoroethane | | |
| | 374-07-2 | 1,1 Dichloro-1,2,2,2tetrafluoroethane | | |
| 1-4-5 | 76-15-3 | chloropentafluoroethane | CFC-115 | A-Ⅰ |
| 1-4-6 | 353-59-3 | Bromochlorodifluoromethane | Halone-1211 | A-Ⅱ |
| 1-4-7 | 75-63-8 | Bromotrifluoromethane | Halone-1301 | A-Ⅱ |
| 1-4-8 | — | Dibromotetrafluoroethane | Halone-2402 | A-Ⅱ |
| | 25497-30-7 | Dibromotetrafluoroethane | | |
| | 124-73-2 | 1,2-dibromotetrafluoroethane | | |
| | 27336-23-8 | 1,1-dibromotetrafluoroethane | 1,1-Dibromo-1,2,2,2-tetrafluoroethane | |
| 1-4-9 | 75-72-9 | Chlorotrifluoromethane | CFC-13 | B-Ⅰ |
| 1-4-10 | 354-56-3 | Pentachlorofluoroethane | CFC-111 | B-Ⅰ |
| 1-4-11 | — | Tetrachlorodifluoroethane | CFC-112 | B-Ⅰ |
| | 76-11-9 | 1,1,1,2-Tetrachloro-2,2,difluoroethane | | |
| | 76-12-0 | 1,1,2,2-Tetrachloro-1,2,difluoroethane | | |
| | 28605-74-5 | Tetrachlorodifluoroethane | | |
| 1-4-12 | 422-78-6 | Heptachlorofluoropropane | CFC-211 | B-Ⅰ |
| 1-4-13 | 3182-26-1 | Hexachlorodifluoropropane | CFC-212 | B-Ⅰ |
| 1-4-14 | 2354-06-5 | Pentachlorotrifluoropropane | CFC-213 | B-Ⅰ |
| 1-4-15 | — | Tetrachlorotetrafluoropropane | CFC-214 | B-Ⅰ |
| | 2268-46-4 | 1,1,1,3-Tetrachlorotetrafluoropropane | | |
| | 29255-31-0 | Tetrachlorotetrafluoropropane | | |
| 1-4-16 | — | Trichloropentafluoropropane | CFC-215 | B-Ⅰ |
| | 76-17-5 | 1,2,3-Trichloropentafluoropropane | | |
| | 1599-41-3 | 1,2,2-Trichloropentafluoropropane | | |
| | 4259-43-2 | 1,1,1-Trichloropentafluoropropane | | |
| 1-4-17 | — | Dichlorohexafluoropropane | CFC-216 | B-Ⅰ |
| | 661-97-2 | 1,2-Dichloro -1,1,2,3,3,3-hexafluoropropane | | |
| 1-4-18 | — | Monochloroheptafluoropropane | CFC-217 | B-Ⅰ |
| | 76-18-6 | 2-Chloroheptafluoropropane | | |
| 1-4-19 | 56-23-5 | Carbon tetrachloride | Tetrachloromethane | B-Ⅱ |
| 1-4-20 | 71-55-6 | 1,1,1-trichloroethane | Methyl chloroform | B-Ⅲ |
| 1-4-21 | 1868-53-7 | Dibromofluoromethane | | C-Ⅱ |
| 1-4-22 | 1511-62-2 | Bromodifluoromethane | HBFC-22B1 | C-Ⅱ |
| 1-4-23 | 373-52-4 | Bromofluoromethane | | C-Ⅱ |
| 1-4-24 | — | Tetrabromofluoromethane | | C-Ⅱ |
| 1-4-25 | — | Tribromofluoromethane | | C-Ⅱ |
| 1-4-26 | — | Dibromofluoromethane | | C-Ⅱ |
| 1-4-27 | — | Bromotetrafluoroethane | | C-Ⅱ |
| | 124-72-1 | 2-Bromo-1,1,1,2-tetrafluoroethane | | |
| 1-4-28 | — | Tribromofluoroethane | | C-Ⅱ |
| 1-4-29 | — | Dibromofluoroethane | | C-Ⅱ |
| 1-4-30 | — | Bromotrifluoroethane | | C-Ⅱ |
| | 421-06-7 | 2-Bromo-1,1,1,-trifluoroethane | | |



## Table 1（Prohibited Substances）

### ④Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures of Japan：Specified Substances

Montreal Protocol Annex A Group Ⅰ, Ⅱ, Annex B Group Ⅰ, Ⅱ, Ⅲ, Annex C Group Ⅱ, Ⅲ, Annex E Group Ⅰ

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 1-4-31 | — | Dibromofluoroethane | | C-Ⅱ |
| | 358-97-4 | 1,2-Dibromo-1-fluoroethane | | |
| 1-4-32 | — | Bromodifluoroethane | | C-Ⅱ |
| | 359-07-9 | 2-Bromo-1,1-difluoroethane | | |
| 1-4-33 | — | Bromofluoroethane | | C-Ⅱ |
| | 762-49-2 | 1-Bromo-2-fluoroethane | | |
| 1-4-34 | — | Hexabromofluoropropane | | C-Ⅱ |
| 1-4-35 | — | Pentabromodifluoropropane | | C-Ⅱ |
| 1-4-36 | — | Tetrabromotrifluoropropane | | C-Ⅱ |
| 1-4-37 | — | Tribromotetrafluoropropane | | C-Ⅱ |
| 1-4-38 | — | Dibromopentafluoropropane | | C-Ⅱ |
| 1-4-39 | — | Bromohexafluoropropane | | C-Ⅱ |
| | 2252-78-0 | 1-Bromo-1,1,2,3,3,3,-hexafluoropropane | | |
| 1-4-40 | — | Pentabromofluoropropane | | C-Ⅱ |
| 1-4-41 | — | Tetrabromodifluoropropane | | C-Ⅱ |
| 1-4-42 | — | Tribromotrifluoropropane | | C-Ⅱ |
| 1-4-43 | — | Dibromotetrafluoropropane | | C-Ⅱ |
| 1-4-44 | — | Bromopentafluoropropane | | C-Ⅱ |
| 1-4-45 | — | Tetrabromofluoropropane | | C-Ⅱ |
| 1-4-46 | — | Tribromodifluoropropane | | C-Ⅱ |
| 1-4-47 | — | Dibromotrifluoropropane | | C-Ⅱ |
| 1-4-48 | — | Bromotetrafluoropropane | | C-Ⅱ |
| 1-4-49 | — | Tribromofluoropropane | | C-Ⅱ |
| 1-4-50 | — | Dibromodifluoropropane | | C-Ⅱ |
| 1-4-51 | — | Bromotrifluoropropane | | C-Ⅱ |
| 1-4-52 | — | Dibromofluoropropane | | C-Ⅱ |
| 1-4-53 | — | Bromodifluoropropane | | C-Ⅱ |
| 1-4-54 | — | Bromofluoropropane | | C-Ⅱ |
| 1-4-55 | 74-97-5 | Bromochloromethane | | C-Ⅲ |
| 1-4-56 | 74-83-9 | Methyl bromide | Bromomethane | E-Ⅰ |

## Table 2 (Substances to be controlled and reduced)

### ①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Specific Class I Designated Chemical Substance

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 2-1-1 | 1332-21-4 | Asbestos | Chrysotile | 33 |
| 2-1-2 | 75-21-8 | Ethylene oxide | Oxirane | 56 |
| 2-1-3 | — | Cadmium and its compounds | | 75 |
| | 7440-43-9 | Cadmium | | |
| | 10108-64-2 | Cadmium chloride | | |
| | 35658-65-2 | Cadmium chloride (CdCl2), monohydrate | | |
| | 10325-94-7 | Cadmium nitrate | | |
| | 10022-68-1 | Nitric acid, cadmium salt, tetrahydrate | | |
| | 1306-23-6 | Cadmium sulphide | | |
| | 10124-36-4 | Cadmium sulphate | | |
| | 7790-84-3 | Cadmium sulfate(1:1), 8/3hydrate | | |
| | 1306-19-0 | Cadmium oxide | | |
| | 13477-21-9 | Cadmium sulfate, tetrahydrate | | |
| | 14239-68-0 | Cadmium bis (diethyldithiocarbamate) | | |
| | 14486-19-2 | Cadmium tetrafluoroborate | | |
| | 17010-21-8 | Cadmium hexafluorosilicate(2-) | | |
| | 2191-10-8 | Cadmium caprylate | | |
| | 22750-54-5 | Chloric acid, cadmium salt | | |
| | 506-82-1 | Dimethylcadmium | | |
| | 513-78-0 | Cadmium carbonate | | |
| | 542-83-6 | Cadmium cyanide | | |
| | 543-90-8 | Acetic acid, cadmium(II) salt | | |
| | 5743-04-4 | Cadmium acetate | | |
| | 592-02-9 | Diethylcadmium | | |
| | 7790-79-6 | Cadmium fluoride | | |
| | 7790-80-9 | Cadmium iodide | | |
| 2-1-4 | — | Hexavalent chromium compounds | | 88 |
| | 13530-65-9 | Zinc chromate(Ⅵ) | | |
| | 7789-00-6 | Potassium chromate(Ⅵ) | | |
| | 13765-19-0 | Calcium chromate(Ⅵ) | | |
| | 7789-06-2 | Chromic(Ⅵ) acid (H2CrO4), strontium salt | | |
| | 7758-97-6 | Lead chromate(Ⅵ) | | |
| | 10294-40-3 | Barium chromate(Ⅵ) | | |
| | 7778-50-9 | Potassium dichromate | | |
| | 7789-12-0 | Sodium dichromate, dihydrate | | |
| | 1333-82-0 | Chromium (VI), trioxide | | |
| | 10588-01-9 | Sodium dichromate, anhydrate | | |
| | 13530-68-2 | Dichromic acid | | |
| | 7738-94-5 | Chromic acid | | |
| | 7775-11-3 | Sodium chromate (Na2CrO4) | | |
| 2-1-5 | 75-01-4 | Chloroethylene | Vinyl chloride | 94 |
| 2-1-6 | — | Dioxins | | 243 |
| 2-1-7 | — | Lead compounds | | 305 |
| 2-1-8 | — | Nickel compounds | | 309 |
| | 31794-68-0 | 2-(Dimethylamino)ethanethiolnickelsalt | | |
| | 12035-72-2 | Nickel subsulfide | | |
| | 557-19-7 | Nickel cyanide | | |
| | 15521-65-0 | Nickel dimethyldithiocarbamate | | |
| | 13463-39-3 | Nickel carbonyl | | |
| | 1271-28-9 | Bis(5-2,4-cyclopentadien-1-yl)nickel | | |
| | 10028-18-9 | Nickel fluoride (NiF2) | | |
| | 10381-36-9 | Phosphoric acid, nickel(2+) salt (2:3) | | |



## Table 2 (Substances to be controlled and reduced)

### ①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Specific Class I Designated Chemical Substance

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| | 12035-72-2 | Nickel subsulfide | | |
| | 1313-99-1 | Nickel oxide | | |
| | 7718-54-9 | Nickel(II) chloride | | |
| | 1314-06-3 | Nickel oxide (Ni2O3) | | |
| | 13478-00-7 | Nickel(II) nitrate, hexahydrate (1:2:6) | | |
| | 13138-45-9 | Nickel nitrate (2+ salt) | | |
| | 6018-89-9 | Nickel acetate, tetrahydrate | | |
| | 373-02-4 | Nickel(II) acetate | | |
| | 12054-48-7 | Nickel hydroxide | | |
| | 3333-67-3 | Nickel carbonate | | |
| | 11113-75-0 | Nickel sulfide | | |
| 2-1-9 | — | Arsenic and its inorganic compounds | | 332 |
| | 7440-38-2 | Arsenic | | |
| | 7784-42-1 | Arsine | Hydrogenarsenide | |
| | 1303-28-2 | Diarsenic pentaoxide | | |
| | 7778-39-4 | Arsenic acid | | |
| | 1327-53-3 | Diarsenic trioxide | | |
| 2-1-10 | 106-99-0 | 1,3-Butadiene | | 351 |
| 2-1-11 | 75-26-3 | 2-Bromopropane | | 385 |
| 2-1-12 | — | Beryllium and its compounds | | 394 |
| | 7440-41-7 | Beryllium | | |
| | 1304-56-9 | Beryllium oxide | | |
| | 7787-49-7 | Beryllium fluoride | | |
| 2-1-13 | 98-07-7 | Benzylidyne trichloride | Benzotrichloride, α,α,α,- Trichlorotoluene | 397 |
| 2-1-14 | 71-43-2 | Benzene | | 400 |
| 2-1-15 | 50-00-0 | Formaldehyde | | 411 |

## Table 2 (Substances to be controlled and reduced)

### ②Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. of Japan：Class II Specified Chemical Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-2-1 | 79-01-6 | Trichloroethylene | Trichlene | |
| 2-2-2 | 127-18-4 | Tetrachloroethylene | Ethylenetetrachloride, Perchlene, Perchloroethylene | |
| 2-2-3 | 56-23-5 | Carbon tetrachloride | Tetrachloromethane | |
| 2-2-4 | 1803-12-9 | Triphenyltin=N,N-dimethyldithiocarbamate | (((Dimethylamino)thioxomethyl)thio)triphenylstannane | |
| 2-2-5 | 379-52-2 | Triphenyltin=fluoride | | |
| 2-2-6 | 900-95-8 | Triphenyltin=acetate | Acetyltriphenyltin | |
| 2-2-7 | 639-58-7 | Triphenyltin=chloride | Chlorotriphenyltin, Triphenylcholorotin | |
| 2-2-8 | 76-87-9 | Triphenyltin=hydroxide | Hydroxytriphenyltin | |
| 2-2-9 | 47672-31-1 | Triphenyltin=salts of fatty acid (limited to those containing 9, 10 or 11 carbon atoms in the fatty acid) | | |
| 2-2-10 | 7094-94-2 | Triphenyltin=chloroacetate | | |
| 2-2-11 | 2155-70-6 | Tributyltin=methacrylate | Tributyl(methacryloxy)stannane | |
| 2-2-12 | 6454-35-9 | Bis(tributyltin)=fumarate | | |
| 2-2-13 | 1983-10-4 | Tributyltin=fluoride | | |
| 2-2-14 | 31732-71-5 | Bis(tributyltin)=2,3-dibromosuccinate | | |
| 2-2-15 | 56-36-0 | Tributyltin=acetate | Acetoxytributylstannane | |
| 2-2-16 | 3090-36-6 | Tributyltin=laurate | | |
| 2-2-17 | 4782-29-0 | Bis(tributyltin)=phthalate | | |
| 2-2-18 | 67772-01-4 | Poly(Alkyl=acrylate-co-methyl=methacrylate-co-tributyltin=methacrylate)(limited to those containing 8 carbon atoms in alkyl group of alkyl=acrylate) | | |
| 2-2-19 | 6517-25-5 | Tributyltin=sulfamate | | |
| 2-2-20 | 14275-57-1 | Bis(tributyltin)=maleate | | |
| 2-2-21 | 1461-22-9 | Tributyltin=chloride | | |
| 2-2-22 | 85409-17-2 | Mixture of tributyltin=cyclopentanecarboxylate and its analogous compounds | Tributyltin=naphthenate | |
| 2-2-23 | 26239-64-5 | Mixture of tributyltin=1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylate and its analogous compounds | Tributyltin salt of rosin | |



## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan：Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-1 | 2104-64-5 | Ethylparanitrophenylthionc benzenephosphonate | EPN | Law |
| 2-3-2 | 7723-14-0 | Yellow phosphorus | | Law |
| 2-3-3 | 297-78-9 | Octachlorotetrahydro methanophthalar | Isobenzan | Law |
| 2-3-4 | 152-16-9 | Octamethyl pyrophosphoramide | Schradan | Law |
| 2-3-5 | 8063-06-7 | Curare | | Law |
| 2-3-6 | — | Tetraalkyl lead | | Law |
| | 1762-26-1 | Ethyltrimethyl lead | | |
| | 1762-27-2 | Diethyldimethyl lead | | |
| | 1762-28-3 | Triethylmethyl lead | | |
| | 75-74-1 | Tetramethyl lead | | |
| | 78-00-2 | Tetraethyl lead | | |
| 2-3-7 | 74-90-8 | Hydroxylamine | Hydrogen cyanide | Law |
| 2-3-8 | 143-33-9 | Sodium cyanide | | Law |
| 2-3-9 | 56-38-2 | Diethyl paranitrophenyl thiophosphate | Parathion | Law |
| 2-3-10 | 1335-85-9 | Dinitrocresol | Dinitro-o-cresol | Law |
| 2-3-11 | 88-85-7 | 2,4-Dinitro-6-(1- methylpropyl)-phenol | Dinoseb | Law |
| 2-3-12 | 8022-00-2 | Dimethylethylmercaptoethyl thiophosphate | Demeton-methyl | Law |
| 2-3-13 | 13171-21-6 | Dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate | Phosphamidon | Law |
| 2-3-14 | 298-00-0 | Dimethylparanitrophenyl thiophosphate | Parathion-methyl | Law |
| 2-3-15 | 7439-97-6 | Mercury | | Law |
| 2-3-16 | 7782-49-2 | Selenium | | Law |
| 2-3-17 | 79-19-6 | Thiosemicarbazide | | Law |
| 2-3-18 | 107-49-3 | Tetraethylpyrophosphate | TEPP | Law |
| 2-3-19 | 54-11-5 | Nicotine | Pyridine, 3-[(2S)-1-methyl-2-pyrrolidinyl]- | Law |
| 2-3-20 | 13463-39-3 | Nickel carbonyl | | Law |
| 2-3-21 | 7440-38-2 | Arsenic | | Law |
| 2-3-22 | 7664-39-3 | Hydrogen fluoride | Hydrofluoric acid | Law |
| 2-3-23 | 72-20-8 | Hexachloro-epoxy-octahydro-endo,endo-dimethanonaphthalene | Endrin | Law |
| 2-3-24 | 115-29-7 | Hexachloro-hexahydro-methano-benzo-dioxathiepine oxide | Endosulfan | Law |
| 2-3-25 | 144-49-0 | Monofluoroacetate | Fluoroacetic acid | Law |
| 2-3-26 | 640-19-7 | Monofluoroacetamide | 2-Fluoroacetamide | Law |
| 2-3-27 | — | Phosphorus sulfide | | Law |
| | 1314-80-3 | Phosphorus sulfide | Phosphorus pentasulfide | |
| | 1314-85-8 | Phosphorus trisulfide | Tetraphosphorus trisulfide | |
| | 12037-82-0 | Tetraphosphorus heptasulphide | | |
| 2-3-28 | 26628-22-8 | Sodium azide and its preparations, except in contamination equal to or less than 0.1% of Sodium azide | | Order |
| 2-3-29 | 541-42-4 | Isopropyl nitrite and its preparations | 2-Propyl nitrite | Order |
| 2-3-30 | 544-16-1 | Butyl nitrite and its preparations | Nitrous acid butyl ester | Order |
| 2-3-31 | 71751-41-2 | Avermectin and its preparations, except in concentration equal to or less than 1.8% of Avermectin | | Order |
| 2-3-32 | 107-11-9 | 3-Amino-1-propen and its preparations | | Order |
| 2-3-33 | 107-18-6 | Allyl alcohol and its preparations | 2-Propen-1-ol | Order |
| 2-3-34 | 6420-47-9 | Phenol, 2-sec-butyl-4,6-dinitro-, compound with 2,2',2"-nitrilotriethanol (1:1) | | Order |

## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-35 | 25311-71-1 | Isopropyl 2-{[ethoxy(isopropylamino)phosphorothioyl]oxy} benzoate and its preparations, except in contamination equal to or less than 5% of Isopropyl 2-{[ethoxy(isopropylamino)phosphorothioyl]oxy} benzoate | | Order |
| 2-3-36 | 13194-48-4 | O-Ethyl S,S-dipropyl phosphorodithioate and its preparations, except in contamination equal to or less than 5% of O-Ethyl S,S-dipropyl phosphorodithioate | Ethoprophos | Order |
| 2-3-37 | 2104-64-5 | Preparations containing Ethylparanitrophenylthiono benzenephosphonate, except in contamination equal to or less than 1.5% of Ethylparanitrophenylthiono benzenephosphonate | EPN | Order |
| 2-3-38 | 54381-26-9 | N-Ethyl-methyl-(2-chloro-4-methylmercaptophenyl)-thiophosphoramide and its preparations | Amidothioate | Order |
| 2-3-39 | 98-09-9 | Benzensulfonyl chloride and its preparations | | Order |
| 2-3-40 | 10025-87-3 | Phosphorus oxychloride and its preparations | Phosphoryl chloride | Order |
| 2-3-41 | 7723-14-0 | Preparations containing Yellow Phosphorus | | Order |
| 2-3-42 | 297-78-9 | Preparations containing Octachlorotetrahydrc methanophthalan | | Order |
| 2-3-43 | 152-16-9 | Preparations containing Octamethyl pyrophosphoramide | Schradan | Order |
| 2-3-44 | 8063-06-7 | Preparations containing Curare | | Order |
| 2-3-45 | 107-20-0 | Chloroacetaldehyde and its preparations | 2-Chloroacetaldehyde | Order |
| 2-3-46 | 10026-13-8 | Phosphorus pentachloride and its preparations | | Order |
| 2-3-47 | 10294-34-5 | Boron trichloride and its preparations | | Order |
| 2-3-48 | 7719-12-2 | Phosphorus trichloride and preparations containing Phosphorus trichloride | | Order |
| 2-3-49 | 7637-07-2 | Boron trifluoride and its preparations | | Order |
| 2-3-50 | 7783-55-3 | Phosphorous trifluoride and preparations containing Phosphorous trifluoride | | Order |
| 2-3-51 | 869-29-4 | Diacetoxypropene and its preparations | 1,1-Diacetoxy-2-propene | Order |
| 2-3-52 | — | Tetraalkyl lead | | Order |
| | 1762-26-1 | Ethyltrimethyl lead | | |
| | 1762-27-2 | Diethyldimethyl lead | | |
| | 1762-28-3 | Triethylmethyl lead | | |
| | 75-74-1 | Tetramethyl lead | | |
| | 78-00-2 | Tetraethyl lead | | |
| 2-3-53 | — | Inorganic cyanide compounds, except<br>・Hydrogen cyanide and preparations containing Hydrogen cyanide<br>・Ferricyanide salts and preparations containing Ferricyanide salts<br>・Ferrocyanide salts and preparations containing Ferrocyanide salts | | Order |
| | 156-62-7 | Calcium cyanamide | | |



## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| | 557-21-1 | Zinc cyanide | | |
| | 151-50-8 | Potassium cyanide | | |
| | 74-90-8 | Hydrogen cyanide | | |
| | 544-92-3 | Cuprous cyanide (Ⅰ) | | |
| | 143-33-9 | Sodium cyanide | | |
| | 506-64-9 | Silver cyanide | | |
| 2-3-54 | 298-04-4 | Diethyl-S-(ethylthioethyl)- dithiophosphate and its preparations, except in contamination equal to or less than 0.1% of Diethyl-S-(ethylthioethyl)- dithiophosphate | Disulfoton | Order |
| 2-3-55 | 10311-84-9 | Diethyl-S-(2-chloro-1- phthalimidoethyl)-dithiophosphate and its preparations | Dialifos | Order |
| 2-3-56 | 333-29-9 | Diethyl-(1,3- dithiocyclopentylidene)-thiophosphoramide and its preparations, except in contamination equal to or less than 5% of Diethyl-(1,3- dithiocyclopentylidene)-thiophosphoramide | Phosfolan | Order |
| 2-3-57 | — | Diethyl paradimethylamino sulfonylphenyl thiophosphate and its preparations | | Order |
| 2-3-58 | 56-38-2 | Preparations containing Diethyl paranitrophenyl thiophosphate | O,O-Diethyl-O-(p-nitrophenyl)phosphorothioate,<br>Parathion | Order |
| 2-3-59 | 115-90-2 | Diethyl-4-methylsulfinylphenyl-thiophosphateand its preparations, except in contamination equal to or less than 3% of Diethyl-4-methylsulfinylphenyl-thiophosphate | Fensulfothion | Order |
| 2-3-60 | 96-23-1 | 1,3-Dichloropropane-2-ol and its preparations | | Order |
| 2-3-61 | 534-52-1 | Preparations containing Dinitrocresol | | Order |
| 2-3-62 | — | Dinitrocresol Salts and preparations containing Dinitrocresol Salts | | Order |
| 2-3-63 | 25550-58-7 | Dinitrophenol and its preparations | Dinitrophenol | Order |
| 2-3-64 | 88-85-7 | 2,4-Dinitro-6-(1- methylpropyl)-phenol and its preparations, except in contamination equal to or less than 3% of 2,4-Dinitro-6-(1-methylpropyl)-phenol | Dinoseb | Order |
| 2-3-65 | 82-66-6 | 2-Diphenylacetyl-1,3- indandione and its preparations, except in contamination equal to or less than 0.005% of 2-Diphenylacetyl-1,3- indandione | Diphacinone | Order |
| 2-3-66 | 7783-60-0 | Sulfur tetrafluoride and its preparations | | Order |
| 2-3-67 | 19287-45-7 | Diborane and its preparations | Boroethane | Order |
| 2-3-68 | 36614-38-7 | Dimethyl- (isopropylthioethyl)-dithiophosphate and its preparations, except in contamination equal to or less than 4% of Dimethyl- (isopropylthioethyl)-dithiophosphate | Isothionate | Order |
| 2-3-69 | 8022-00-2 | Preparations containing Dimethylethylmercapto ethylthiophosphate | Demeton-methyl | Order |
| 2-3-70 | 13171-21-6 | Preparations containing Dimethyl-(diethylamido-1-chlorocrotonyl)-phosphate | Phosphamidon | Order |

## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-71 | 494-68-8 | 1,1'-Dimethyl-4,4'-bipyridine-1,1'-diium dichloride, its salts and preparations | | Order |
| 2-3-72 | 298-00-0 | Preparations containing Dimethylparanitrophenyl thiophosphate | Parathion-methyl | Order |
| 2-3-73 | 3282-30-2 | 2,2-Dimethylpropionyl chloride and its preparations | | Order |
| 2-3-74 | 22781-23-3 | 2,2-Dimethyl-1,3- benzodioxol-4-yl-N-methylcarbamate and its preparations, except in contamination equal to or less than 5% of 2,2-Dimethyl-1,3- benzodioxol-4-yl-N-methylcarbamate | Bendiocarb | Order |
| 2-3-75 | — | Mercury compounds and preparations containing mercury compounds, except<br>・Mercury(Ⅱ) aminochloride and its preparations,<br>・Mercury(I) chloride and its preparations,<br>・Mercury dioleate aand its preparations,<br>・Preparations containing Mercury oxide in concentration equal to or less than 5%<br>・Mercury iodide(I) and its preparations,<br>・Mercury difulminate and its preparations,<br>・Mercury(II) sulfide and its preparations | | Order |
| | 7439-97-6 | Mercury | | |
| | 7487-94-7 | Mercury dichloride | | |
| | 1600-27-7 | Mercury(II) acetate | | |
| | 21908-53-2 | Mercury (II) oxide | | |
| | 7789-47-1 | Mercury dibromide | | |
| | 10031-18-2 | Mercury bromides | | |
| | 10045-94-0 | Mercury (II) nitrate | | |
| | 1335-31-5 | Dimercury dicyanide oxide | | |
| | 592-04-1 | Mercury (II) cyanide | | |
| | 592-85-8 | Mercury(II) thiocyanate | | |
| | 7782-86-7 | Nitric acid, mercury(1+) salt monohydrate | | |
| | 7783-33-7 | Dipotassium tetraiodomercurate | | |
| | 7783-35-9 | Mercury sulphate | | |
| | 102-98-7 | Dihydrogen [orthoborato(3-)-O]phenylmercurate(2-) | | |
| | 62-38-4 | Phenylmercury acetate | | |
| | 1071-39-2 | Diisopropylmercury | | |
| | 107-27-7 | Ethylmercury chloride | | |
| | 115-09-3 | Chloromethylmercury | | |
| | 1184-57-2 | Methylmercury hydroxide | | |
| | 2440-45-1 | Bis(ethylmercury) hydrogen phosphate | | |
| | 502-39-6 | 3-Cyanoguanidinomethylmercury | | |
| | 51622-02-7 | Diheptan-1-ylmercury | | |
| | 543-63-5 | Butan-1-yl(chloro)mercury | | |
| | 593-74-8 | Dimethylmercury | | |
| | 627-44-1 | Diethylmercury | | |
| | 628-85-3 | Dipropan-1-ylmercury | | |
| | 629-35-6 | Mercury, dibutyl- | | |
| | 691-88-3 | Di-sec-butylmercury | | |
| 2-3-76 | 57-24-9 | Strychnine, its salts and preparations containing Strychnine | | Order |



## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-77 | — | Selenium compounds and its preparations, except<br>・Preparations containing Disodium selenium trioxide in concentration equal to or less than 0.00011%<br>・Preparations containing Selenic acid, disodium salt in concentration equal to or less than 0.00012% | | Order |
| | 7782-49-2 | Selenium | | |
| | 10102-18-8 | Disodium selenium trioxide | | |
| | 13410-01-0 | Selenic acid, disodium salt | | |
| | 144-34-3 | Selenium tetrakis (dimethyldithiocarbamate) | | |
| | 15123-92-9 | Thallium selenite | | |
| | 26970-82-1 | Sodium selenite pentahydrate | | |
| | 5456-28-0 | Selenium tetrakis (diethyldithiocarbamate) | | |
| | 7446-08-4 | Selenium dioxide | | |
| | 7446-34-6 | Selenium Sulfide | | |
| | 7488-56-4 | Selenium disulfide | | |
| | 7783-00-8 | Monohydrated selenium dioxide | | |
| | 7783-07-5 | Selenium hydride | | |
| | 7783-08-6 | Selenic acid | | |
| | 7783-79-1 | Selenium hexafluoride | | |
| | 7791-23-3 | Selenium oxychloride | | |
| 2-3-78 | 107-49-3 | Preparations containing Tetraethy pyrophosphate | TEPP | Order |
| 2-3-79 | 79538-32-2 | 2,3,5,6-Tetrafluoro-4-methylbenzyl (Z)-(1RS,3RS)-3-(2-chloro-3,3,3-trifluoro-1-propenyl-2,2-dimethylcyclopropanecarboxylate and its preparations, except in concentration equal to or less than 0.5% of 2,3,5,6-Tetrafluoro-4-methylbenzyl (Z)-(1RS,3RS)-3-(2-chloro-3,3,3-trifluoro-1-propenyl-2,2-dimethylcyclopropanecarboxylate | Tefluthrin | Order |
| 2-3-80 | 2439-10-3 | 1-Dodecylguanidinium acetate and its preparations, except in concentration equal to or less than 65% of 1-Dodecylguanidinium acetate | Dodine | Order |
| 2-3-81 | 55134-13-9 | Narasin ,its salts and its preparations, except in concentration equal to or less than 10% of Narasin | 4-Methylsalinomycin | Order |
| 2-3-82 | 54-11-5 | Preparations containing Nicotine | | Order |
| 2-3-83 | — | Nicotine salts and its preparations | | Order |
| 2-3-84 | 13463-39-3 | Preparations containing Nickel carbonyl | | Order |
| 2-3-85 | 95465-99-9 | S,S-bis(1-methylpropyl) O-ethyl phosphorodithioate and its preparations, except in concentration equal to or less than 10% of S,S-bis(1-methylpropyl) O-ethyl phosphorodithioate | Cadusafos | Order |

## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-86 | — | Arsenic compounds and its preparations, except<br>・Indium arsenide and its preparations,<br>・Gallium arsenide and its preparations,<br>・Calcium methane arsonate and its preparations,<br>・Iron methane arsonat and its preparations | | Order |
| | 7440-38-2 | Arsenic | | |
| | 10031-13-7 | Lead arsenite | | |
| | 10102-49-5 | Ferric arsenate(III) | | |
| | 10102-50-8 | Ferric arsenate(II) | | |
| | 10102-53-1 | Metaarsenic acid | | |
| | 10103-50-1 | Magnesium arsenate | | |
| | 10124-50-2 | Potassium arsenite | | |
| | 10290-12-7 | Copper arsenite | | |
| | 10326-24-6 | Zinc arsenite | | |
| | 12002-03-8 | Copper acetoarsenite | | |
| | 121-59-5 | N-Carbamyl arsanic acid | | |
| | 1303-28-2 | Diarsenic pentaoxide | | |
| | 1303-33-9 | Arsenic trisulfide | | |
| | 1303-39-5 | Zinc arsenate | | |
| | 1327-53-3 | Diarsenic trioxide | | |
| | 13464-35-2 | Potassium arsenite | | |
| | 22441-45-8 | Arsenic pentachloride | | |
| | 27152-57-4 | Calcium arsenite | | |
| | 333-25-5 | 2-Chlorovinyl dichloroarsine oxide | | |
| | 3687-31-8 | Lead arsenate | | |
| | 40334-69-8 | Bis(2-chlorovinyl)chloroarsine | | |
| | 40334-70-1 | Tris(2-chlorovinyl)arsine | | |
| | 52740-16-6 | Calcium arsenite(1:1) | | |
| | 541-25-3 | 2-Chlorovinyl dichloroarsine | | |
| | 593-89-5 | Dichloromethylarsine | | |
| | 618-25-7 | N-(Carbamoylmethyl)arsanilic acid | | |
| | 63989-69-5 | Ferric arsenite(III), pentahydrate | | |
| | 696-28-6 | 2-Chlorophenyl arsine | | |
| | 75-60-5 | Cacodylicacid | | |
| | 7631-89-2 | Sodium arsenate | | |
| | 7778-39-4 | Arsenic acid | | |
| | 7778-43-0 | Disodium hydrogen arsenate | | |
| | 7778-44-1 | Calcium arsenate | | |
| | 7784-33-0 | Arsenic bromide(III) | | |
| | 7784-34-1 | Arsenous trichloride | | |
| | 7784-35-2 | Arsenous trifluoride | | |
| | 7784-36-3 | Arsorane, pentafluoro- | | |
| | 7784-40-9 | Lead hydrogen arsenate | | |
| | 7784-41-0 | Potassium arsenate | | |
| | 7784-42-1 | Arsine | | |
| | 7784-44-3 | Ammonium arsenate | | |
| | 7784-46-5 | Sodium arsenite | | |
| | 97-44-9 | Acetophenarsine | | |
| | 98-05-5 | Benzenearsonicacid | | |
| 2-3-87 | 302-01-2 | Hydrazine | | Order |



## Table 2 (Substances to be controlled and reduced)

### ③Poisonous and Deleterious Substances Control Law of Japan: Poisonous Substances

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-3-88 | 65907-30-4 | Butyl 2,3-dihydro-2,2- dimethylbenzofuran-7 -yl N,N'-dimethyl-N,N'- thiodicarbamate and its preparations, except in contamination equal to or less than 5% of Butyl 2,3-dihydro-2,2-dimethylbenzofuran-7 -yl N,N'-dimethyl-N,N'-thiodicarbamate | | Order |
| 2-3-89 | 7664-39-3 | Preparations containing Hydrogen fluoride | | Order |
| 2-3-90 | 2699-79-8 | Sulfuryl fluoride and its preparations | | Order |
| 2-3-91 | 7789-21-1 | Fluorosulfonic acid and its preparations | | Order |
| 2-3-92 | 55837-20-2 | 7-Bromo-6-chloro-3-[3- [(2R,3S)-3-hydroxy-2-piperidyl]-2-oxopropyl]- 4(3H)-quinazolinone, and its salts and preparations | Halofuginone | Order |
| 2-3-93 | 72-20-8 | Preparations containing Hexachloro-epoxy-octahydro-endo,endo- dimethanonaphthalene | Endrin | Order |
| 2-3-94 | 115-29-7 | Preparations containing Hexachloro-hexahydro- methano-benzo- dioxathiepine oxide | Endosulfan | Order |
| 2-3-95 | 77-47-4 | Hexachlorocyclopentadiene and its preparations | | Order |
| 2-3-96 | 108-98-5 | Benzenethiol and its preparations | Mercaptobenzene | Order |
| 2-3-97 | 75-44-5 | Phosgene and its preparations | Carbonylchloride | Order |
| 2-3-98 | 2346-99-8 | Methylcyclohexyl-4-chlorophenylthiophosphate and its preparations, except in contamination equal to or less than 1.5% of Methylcyclohexyl-4-chlorophenylthiophosphate | MHCP | Order |
| 2-3-99 | 23135-22-0 | 2-(Dimethylamino)-n-(((methylamine)carbonyl)oxy)-2-oxoethanimidothioicacidmethylester and its preparations, except in contamination equal to or less than 0.8% of 2-(Dimethylamino)-n-(((methylamine)carbonyl)oxy)-2-oxoethanimidothioicacidmethylester | Oxamyl | Order |
| 2-3-100 | — | Methylphosphonicaciddichloride | | Order |
| 2-3-101 | 16752-77-5 | S-Methyl-N-[(methylcarbamoyl)-oxy]thioacetimidate and its preparations, except in concentration equal to or less than 45% of S-Methyl-N-[(methylcarbamoyl)-oxy]thioacetimidate | Methomyl | Order |
| 2-3-89 | 74-93-1 | Methyl mercaptan and its preparations | | Order |
| 2-3-90 | 39603-48-0 | Methylenebis(1- thiosemicarbazide) and its preparations, except in contamination equal to or less than 2% of Methylenebis(1-thiosemicarbazide) | Bisthiosemi | Order |
| 2-3-91 | — | Fluoroaceticacid salts and its preparations | | Order |
| 2-3-92 | 640-19-7 | Preparations containing 2-fluoroacetamide | | Order |
| 2-3-93 | 20859-73-8 | Aluminium phosphide and preparations containing Aluminium phosphide and its degradation accelerator | | Order |
| 2-3-94 | 7803-51-2 | Hydrogen phosphide and its preparations | Phosphine | Order |
| 2-3-108 | 7783-82-6 | Tungsten hexafluoride and its preparations | | Order |

## Table 2 (Substances to be controlled and reduced)

### ④Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures of Japan：

**Specified Substances: (Montreal Protocol Annex C Group Ⅰ)**

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-4-1 | 75-43-4 | Dichlorofluoromethane | HCFC-21 | C- I |
| 2-4-2 | 75-45-6 | Chlorodifluoromethane | HCFC-22 | C- I |
| 2-4-3 | 593-70-4 | Chlorofluoromethane | HCFC-31 | C- I |
| 2-4-4 | 134237-32-4 | Tetrachlorofluoroethane | HCFC-121 | C- I |
| | 354-11-0 | 1,1,1,2-Tetrachloro-2-fluoroethane | | |
| | 354-14-3 | 1,1,2,2-Tetracloro-1-fluoroethane | | |
| 2-4-5 | — | Trichlorodifluoroethane | HCFC-122 | C- I |
| | 354-15-4 | Ethane, 1,2-difluoro-1,1,2-trichloro- | | |
| 2-4-6 | 134237-33-5 | Dichlorotrifluoroethane | | |
| | 306-83-2 | 2,2-Dichloro-1,1,1-trifluroethane | HCFC-123 | C- I |
| | 354-23-4 | 1,2-Dichloro-1,1,2-trifluroethane | | |
| | 34077-87-7 | Dichlorotrifluoroethane | | |
| 2-4-7 | 63938-10-3 | Chlorotetrafluoroethane | | |
| | 354-25-6 | 1-Chloro-1,1,2,2-tetrafluoroethane | | |
| | 2837-89-0 | 2-Chloro-1,1,1,2-tetrafluoroethane | HCFC-124 | C- I |
| 2-4-8 | 134237-34-6 | Trichlorofluoroethane | HCFC-131 | C- I |
| | 811-95-0 | 1,1,1-Trichloro-2-fluoroethane | | |
| | 27154-33-2 | Trichlorofluoroethane | | |
| 2-4-9 | 25915-78-0 | Dichlorodifluoroethane | HCFC-132 | C- I |
| 2-4-10 | 1330-45-6 | Chlorotrifluoroethane | HCFC-133 | C- I |
| | 75-88-7 | 2-Chloro-1,1,1-trifluoroethane | | |
| 2-4-11 | 25167-88-8 | Dichlorofluoroethane | HCFC-141 | C- I |
| | 430-57-9 | 1,2-Dichloro-1-fluoroethane | | |
| | 1717-00-6 | 1,1-Dichloro-1-fluoroethane | HCFC-141b | |
| 2-4-12 | 25497-29-4 | Chlorodifluoroethane | HCFC-142 | C- I |
| | 75-68-3 | 1-Chloro-1,1-difluoroethane | HCFC-142b | |
| | 338-64-7 | Ethane, 1-chloro-1,2-difluoro- | | |
| 2-4-13 | 110587-14-9 | Chlorofluoroethane | HCFC-151 | C- I |
| 2-4-14 | 134237-35-7 | Hexachlorofluoropropane | HCFC-221 | C- I |
| 2-4-15 | 134237-36-8 | Pentachlorodifluoropropane | HCFC-222 | C- I |
| 2-4-16 | 134237-37-9 | Tetrachlorotrifluropropane | HCFC-223 | C- I |
| 2-4-17 | 127564-91-4 | Trichlorotetrafluropropane | HCFC-224 | C- I |
| | 134237-38-0 | Trichlorotetrafluropropane | | |
| 2-4-18 | 127564-92-5 | Dichloropentafluoropropane | HCFC-225 | C- I |
| | 422-44-6 | 1,2-Dichloro-1,1,2,3,3-pentafluoropropane | | |
| | 422-56-0 | 3,3-Dichloro-1,1,1,2,2-pentafluoropropane | HCFC-225ca | |
| | 507-55-1 | 1,3-Dichloro-1,1,2,2,3-pentafluoropropane | HCFC-225cb | |
| | 13474-88-9 | 1,1-Dichloro-1,2,2,3,3-pentafluoropropane | | |
| | 128903-21-9 | 2,2-Dichloro-1,1,1,3,3-pentafluoropropane | | |
| 2-4-19 | 134308-72-8 | Chlorohexafluoropropane | HCFC-226 | C- I |
| | 422-55-9 | 1-Chloro-1,1,2,2,3,3-hexafluropropane | | |
| | 422-57-1 | 3-Chloro-1,1,1,2,2,3-hexafluropropane | | |
| 2-4-20 | 134190-48-0 | Pentachlorofluoropropane | HCFC-231 | C- I |
| 2-4-21 | 127564-82-3 | Tetrachlorodifluoropropane | HCFC-232 | C- I |
| | 134237-39-1 | Tetrachlorodifluoropropane | | |
| 2-4-22 | 134237-40-4 | Trichlorotrifluoropropane | HCFC-233 | C- I |
| 2-4-23 | 127564-83-4 | Dichlorotetrafluoropropane | HCFC-234 | C- I |
| 2-4-24 | 134237-41-5 | Chloropentafluoropropane | HCFC-235 | C- I |
| 2-4-25 | 134190-49-1 | Tetrachlorofluoropropane | HCFC-241 | C- I |
| 2-4-26 | 127564-90-3 | Trichlorodifluoropropane | HCFC-242 | C- I |
| | 134237-42-6 | Trichlorodifluoropropane | | |
| 2-4-27 | 134237-43-7 | Dichlorotrifluoropropane | HCFC-243 | C- I |



## Table 2 (Substances to be controlled and reduced)

### ④Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures of Japan：

**Specified Substances: (Montreal Protocol Annex C Group Ⅰ)**

| No. | CAS No. | Substance Name | Synonym | Remarks |
|---|---|---|---|---|
| 2-4-28 | 134190-50-4 | Chlorotetrafluoropropane | HCFC-244 | C- I |
| 2-4-29 | 134190-51-5 | Trichlorofluoropropane | HCFC-251 | C- I |
| | 818-99-5 | 1,1,3-Trichloro-1-fluoropropane | | |
| 2-4-30 | 134190-52-6 | Dichlorodifluoropropane | HCFC-252 | C- I |
| 2-4-31 | 134237-44-8 | Chlorotrifluoropropane | HCFC-253 | C- I |
| 2-4-32 | 134237-45-9 | Dichlorofluoropropane | HCFC-261 | C- I |
| | 7799-56-6 | 1,1-Dichloro-1-fluoropropane | | |
| 2-4-33 | 134190-53-7 | Chlorodifluoropropane | HCFC-262 | C- I |
| | 102738-79-4 | 2-Chloro-1,3-difluoropropane | | |
| 2-4-34 | 134190-54-8 | Chlorofluoropropane | HCFC-271 | C- I |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-1 | — | Zinc compound (water-soluble) | | 1 |
| | 7646-85-7 | Zinc chloride | | |
| | 557-34-6 | Zinc di(acetate) | | |
| | 5970-45-6 | Zinc acetate, dihydrate | | |
| | 10196-18-6 | Nitric acid, zinc salt, hexahydrate | | |
| | 7733-02-0 | Sulfuric acid, zinc salt (1:1) | | |
| 3-1-2 | 79-06-1 | Acrylamide | | 2 |
| 3-1-3 | 140-88-5 | Etyl acrylate | | 3 |
| 3-1-4 | 79-10-7 | Acrylic acid and its water-soluble salts | | 4 |
| 3-1-5 | 2439-35-2 | 2-(Dimethylamino)ethyl acrylate | | 5 |
| 3-1-6 | 818-61-1 | 2-Hydroxyethyl acrylate | | 6 |
| 3-1-7 | 141-32-2 | n-Butyl acrylate | | 7 |
| 3-1-8 | 96-33-3 | Methyl acrylate | | 8 |
| 3-1-9 | 107-13-1 | Acrylonitrile | | 9 |
| 3-1-10 | 107-02-8 | Acrolein | | 10 |
| 3-1-11 | 26628-22-8 | Sodium azide | | 11 |
| 3-1-12 | 75-07-0 | Acetoaldehyde | | 12 |
| 3-1-13 | 75-05-8 | Acetonitrile | | 13 |
| 3-1-14 | 75-86-5 | Acetone cyanohydrin | | 14 |
| 3-1-15 | 83-32-9 | Acenaphthene | | 15 |
| 3-1-16 | 78-67-1 | 2, 2'-Azobisisobutyronitrile | | 16 |
| 3-1-17 | 90-04-0 | O-anisidine | | 17 |
| 3-1-18 | 62-53-3 | Aniline | | 18 |
| 3-1-19 | 82-45-1 | 1-Amino-9,10-anthraquinone | | 19 |
| 3-1-20 | 141-43-5 | 2-Aminoethanol | | 20 |
| 3-1-21 | 1698-60-8 | 5-Amino-4-chloro-2-phenylpyridazin-3(2H)-one | Chloridazon | 21 |
| 3-1-22 | 120068-37-3 | 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-cyano-4-[(trifluoromethyl) sulfinyl]pyrazole | Fipronil | 22 |
| 3-1-23 | 123-30-8 | p-Aminophenol | | 23 |
| 3-1-24 | 591-27-5 | M-aminophenol | | 24 |
| 3-1-25 | 21087-64-9 | 4-Amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one | Metribuzin | 25 |
| 3-1-26 | 107-11-9 | 3-Amino-1-propene | | 26 |
| 3-1-27 | 41394-05-2 | 4-Amino-3-methyl-6-phenyl-1,2,4-triazin-5(4H)-one | Metamitron | 27 |
| 3-1-28 | 107-18-6 | Allyl alcohol | | 28 |
| 3-1-29 | 106-92-3 | 1-Allyloxy-2,3-epoxypropane | | 29 |
| 3-1-30 | — | N-alkylbenzenesulfonic acid and its salts (alkyl C=10-14) | | 30 |
| 3-1-31 | — | Antimony and its compounds | | 31 |
| | 7440-36-0 | Antimony | | |
| | 1314-60-9 | Diantimony pentoxide | | |
| | 1309-64-4 | Diantimony trioxide | | |
| | 10025-91-9 | Antimony trichloride | | |
| | 28300-74-5 | Dipotassium bis{mu-[(2R,3R)-2,3-di(oxido-kappaO)butanedioato-kappaO(1):kappaO(4)]}diantimonate(2-) trihydrate, tereoisomer | | |
| | 7803-52-3 | Stibine | | |
| | 1315-04-4 | Diantimony pentasulphide | | |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| | 1345-04-6 | Antimony sulphide (Sb2S3) | | |
| | 7647-18-9 | Antimony pentachloride | | |
| | 7783-70-2 | Antimony pentafluoride | | |
| | 7790-44-5 | Antimony triiodide | | |
| 3-1-32 | 120-12-7 | Anthracene | | 32 |
| 3-1-33 | 1332-21-4 | Asbestos | | 33 |
| 3-1-34 | 4098-71-9 | 3-Isocyanatomethyl-3,5,5-trimethylcyclohexy isocyanate | | 34 |
| 3-1-35 | 78-84-2 | Isobutyraldehyde | | 35 |
| 3-1-36 | 78-79-5 | Isoprene | | 36 |
| 3-1-37 | 80-05-7 | 4,4'-Isopropylidenediphenol | Bisphenol A | 37 |
| 3-1-38 | 4162-45-2 | 2,2'-{Isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]}diethanol | | 38 |
| 3-1-39 | 22224-92-6 | O-ethyl-O-(3-methyl-4-methylthiophenyl) N-isopropylaminophosphonate | Fenamiphos | 39 |
| 3-1-40 | 149877-41-8 | Isopropyl 2-(4-methoxybiphenyl-3-yl)hydrazinoformate | Bifenazate | 40 |
| 3-1-41 | 66332-96-5 | 3'-Isopropoxy-2-trifluoromethylbenzanilide | Flutolanil | 41 |
| 3-1-42 | 96-45-7 | 2-Imidazolidinethione | | 42 |
| 3-1-43 | 13516-27-3 | 1,1'-[Iminodi(octamethylene)] diguanidine | Iminoctadine | 43 |
| 3-1-44 | 923-34-2 | Indium and its compounds | | 44 |
| 3-1-45 | 75-08-1 | Ethanethiol | | 45 |
| 3-1-46 | 76578-14-8 | Ethyl 2-[4-(6-chloro-2-quinoxalinyloxy) phenoxy] propionate | Quizalofop-ethyl | 46 |
| 3-1-47 | 36335-67-8 | O-Ethyl O-(6-nitro-m-tolyl) sec-butylphosphoramidothioate | Butamifos | 47 |
| 3-1-48 | 2104-64-5 | O-Ethyl O-4-nitrophenyl phenylphosphonothioate | EPN | 48 |
| 3-1-49 | 40487-42-1 | N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine | Pendimethalin | 49 |
| 3-1-50 | 2212-67-1 | S-ethyl hexahydro-1H-azepine-1-carbothioate | Molinate | 50 |
| 3-1-51 | 149-57-5 | 2-Ethylhexanoic acid | | 51 |
| 3-1-52 | 83130-01-2 | Ethyl (Z)-3-[N-benzyl-N-[[methyl(1-methylthioethylideneaminooxycarbonyl)amino]thio]amino]propionate | Alanycarb | 52 |
| 3-1-53 | 100-41-4 | Ethylbenzene | | 53 |
| 3-1-54 | 98886-44-3 | O-ethyl S-1-methylpropyl (2-oxo-3-thiazolidinyl)phosphonothioate | Fosthiazate | 54 |
| 3-1-55 | 151-56-4 | Ethyleneimine | | 55 |
| 3-1-56 | 75-21-8 | Ethylene oxide | | 56 |
| 3-1-57 | 110-80-5 | Ethylene glycol monoethyl ether | | 57 |
| 3-1-58 | 109-86-4 | Ethylene glycol monomethyl ether | | 58 |
| 3-1-59 | 107-15-3 | Ethylenediamine | | 59 |
| 3-1-60 | 60-00-4 | Ethylenediaminetetraacetic acid | | 60 |
| 3-1-61 | 12427-38-2 | Manganese N,N'-ethylenebis (dithiocarbamate) | Maneb | 61 |
| 3-1-62 | 8018-01-7 | Complex compounds of manganese N,N'-ethylenebis(dithiocarbamate) and zinc N,N'-ethylenebis (dithiocarbamate) | Mancozeb | 62 |
| 3-1-63 | 85-00-7 | 1,1'-Ethylene-2,2'-bipyridinium dibromide | Diquat dibromide, Diquat | 63 |
| 3-1-64 | 80844-07-1 | 2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether | Etofenprox | 64 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-65 | 106-89-8 | Epichlorohydrin | | 65 |
| 3-1-66 | 106-88-7 | 1,2-Epoxybutane | | 66 |
| 3-1-67 | 556-52-5 | 2,3-Epoxy-1-propanol | | 67 |
| 3-1-68 | 75-56-9 | 1,2-Epoxypropane | Propylene oxide | 68 |
| 3-1-69 | 122-60-1 | 2,3-Epoxypropyl phenyl ether | | 69 |
| 3-1-70 | 155569-91-8 | Emamectin benzoate | Mixture of emamectinB1a benzoate and emamectinB1b benzoate | 70 |
| 3-1-71 | 7705-08-0 | Ferric chloride | | 71 |
| 3-1-72 | 85535-84-8 | Chlorinated paraffin (C=10-13) | | 72 |
| 3-1-73 | 111-87-5 | 1-Octanol | | 73 |
| 3-1-74 | 1806-26-4 | P-octylphenol | | 74 |
| 3-1-75 | — | Cadmium and its compounds | | 75 |
| | 7440-43-9 | Cadmium | | |
| | 10108-64-2 | Cadmium chloride | | |
| | 35658-65-2 | Cadmium chloride (CdCl2), monohydrate | | |
| | 10325-94-7 | Cadmium nitrate | | |
| | 10022-68-1 | Nitric acid, cadmium salt, tetrahydrate | | |
| | 1306-23-6 | Cadmium sulphide | | |
| | 10124-36-4 | Cadmium sulphate | | |
| | 7790-84-3 | Cadmium sulfate(1:1), 8/3hydrate | | |
| | 1306-19-0 | Cadmium oxide | | |
| | 13477-21-9 | Cadmium sulfate, tetrahydrate | | |
| | 14239-68-0 | Cadmium bis (diethyldithiocarbamate) | | |
| | 14486-19-2 | Cadmium tetrafluoroborate | | |
| | 17010-21-8 | Cadmium hexafluorosilicate(2-) | | |
| | 2191-10-8 | Cadmium caprylate | | |
| | 22750-54-5 | Chloric acid, cadmium salt | | |
| | 506-82-1 | Dimethylcadmium | | |
| | 513-78-0 | Cadmium carbonate | | |
| | 542-83-6 | Cadmium cyanide | | |
| | 543-90-8 | Acetic acid, cadmium salt | | |
| | 5743-04-4 | Cadmium acetate | | |
| | 592-02-9 | Diethylcadmium | | |
| | 7790-79-6 | Cadmium fluoride | | |
| | 7790-80-9 | Cadmium iodide | | |
| 3-1-76 | 105-60-2 | ε-Caprolactam | | 76 |
| 3-1-77 | 156-62-7 | Calcium cyanamide | | 77 |
| 3-1-78 | 105-67-9 | 2,4-Xylenol | | 78 |
| 3-1-79 | 576-26-1 | 2,6-Xylenol | | 79 |
| 3-1-80 | 1330-20-7 | Xylene | | 80 |
| 3-1-81 | 91-22-5 | Quinoline | | 81 |
| 3-1-82 | — | Silver and its water-soluble compounds | | 82 |
| | 7440-22-4 | Silver | | |
| | 7783-92-8 | Silver chlorate | | |
| | 7761-88-8 | Nitric acid silver(1+) salt | | |
| 3-1-83 | 98-82-8 | Cumene | | 83 |
| 3-1-84 | 107-22-2 | Glyoxal | | 84 |
| 3-1-85 | 111-30-8 | Glutaraldehyde | | 85 |
| 3-1-86 | 1319-77-3 | Cresol | | 86 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-87 | — | Chromium and chromium(III) compounds | | 87 |
| | 7440-47-3 | Chromium | | |
| | 64093-79-4 | Neochromium | | |
| | 1308-38-9 | Chromium (III) oxide (Cr2O3) | | |
| 3-1-88 | — | Chromium(VI) compounds | | 88 |
| | 13530-65-9 | Zinc chromate(VI) | | |
| | 7789-00-6 | Potassium chromate(VI) | | |
| | 13765-19-0 | Calcium chromate(VI) | | |
| | 7789-06-2 | Chromic(VI) acid (H2CrO4), strontium salt | | |
| | 7758-97-6 | Lead chromate(VI) | | |
| | 10294-40-3 | Barium chromate(VI) | | |
| | 7778-50-9 | Potassium dichromate | | |
| | 7789-12-0 | Sodium dichromate, dihydrate | | |
| | 1333-82-0 | Chromium (VI) trioxide | | |
| | 10588-01-9 | Sodium dichromate, anhydrate | | |
| | 13530-68-2 | Dichromic acid | | |
| | 7738-94-5 | Chromic acid | | |
| | 7775-11-3 | Sodium chromate (Na2CrO4) | | |
| 3-1-89 | 95-51-2 | Chloroaniline | | 89 |
| 3-1-90 | 1912-24-9 | 2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine | Atrazine | 90 |
| 3-1-91 | 21725-46-2 | 2-(4-Chloro-6-ethylamino-1,3,5-triazin-2-yl)amino-2-methylpropiononitrile | Cyanazine | 91 |
| 3-1-92 | 129558-76-5 | 4-Chloro-3-ethyl-1-methyl-N-[4-(p-tolyloxy)benzyl]pyrazole-5-carboxamide | Tolfenpyrad | 92 |
| 3-1-93 | 51218-45-2 | 2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide | Metolachlor | 93 |
| 3-1-94 | 75-01-4 | Chloroethylene | Vinyl chloride | 94 |
| 3-1-95 | 79622-59-6 | 3-Chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)-α, α, α-trifluoro-2, 6-dinitro-p-toluidine | Fluazinam | 95 |
| 3-1-96 | 119446-68-3 | 1-({2-[2-Chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl}methyl)-1H-1, 2,4-triazole | Difenoconazole | 96 |
| 3-1-97 | 611-19-8 | 1-Chloro-2-(chloromethyl)benzene | | 97 |
| 3-1-98 | 79-11-8 | Chloroacetic acid | | 98 |
| 3-1-99 | 105-39-5 | Ethyl chloroacetate | | 99 |
| 3-1-100 | 51218-49-6 | 2-Chloro-2',6'-diethyl-N-(2-propoxyethyl)acetanilide | Pretilachlor | 100 |
| 3-1-101 | 15972-60-8 | 2-Chloro-2',6'-diethy-N-(methoxymethyl)acetanilide | Alachlor | 101 |
| 3-1-102 | 97-00-7 | 1-Chloro-2,4-dinitrobenzene | | 102 |
| 3-1-103 | 75-68-3 | 1-Chloro-1,1-difluoroethane | HCFC-142b | 103 |
| 3-1-104 | 75-45-6 | Chlorodifluoromethane | HCFC-22 | 104 |
| 3-1-105 | 2837-89-0 | 2-Chloro-1,1,1,2-tetrafluoroethane | HCFC-124 | 105 |
| 3-1-106 | — | Chlorotrifluoroethane | HCFC-133 | 106 |
| 3-1-107 | 75-72-9 | Chlorotrifluoromethane | CFC-13 | 107 |
| 3-1-108 | 93-65-2 | (RS)-2-(4-chloro-o-tolyloxy)propionic acid | Mecoprop | 108 |
| 3-1-109 | 95-49-8 | O-chlorotoluene | | 109 |
| 3-1-110 | 106-43-4 | p-Chlorotoluene | | 110 |
| 3-1-111 | 121-87-9 | 2-Chloro-4-nitroaniline | | 111 |
| 3-1-112 | 88-73-3 | 2-Chloronitrobenzene | | 112 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-113 | 122-34-9 | 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine | Shimazine, CAT | 113 |
| 3-1-114 | 133220-30-1 | (RS)-2-[2-(3-chlorophenyl)-2,3-epoxypropyl]-2-ethylindane-1,3-dione | Indanofan | 114 |
| 3-1-115 | 158237-07-1 | 4-(2-Chlorophenyl)-N-cyclohexyl-N-ethyl-4,5-dihydro-5-oxo-1H-tetrazole-1-carboxamide | Fentrazamide | 115 |
| 3-1-116 | 78587-05-0 | (4RS,5RS)-5-(4-Chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-1,3-thiazolidine-3-carboxamide | Hexythiazox | 116 |
| 3-1-117 | 107534-96-3 | (RS)-1-p-chlorophenyl-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol | Tebuconazole | 117 |
| 3-1-118 | 88671-89-0 | 2-(4-Chlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)hexanenitrile | Myclobutanil | 118 |
| 3-1-119 | 114369-43-6 | (RS)-4-(4-chlorophenyl)-2-phenyl-2-(1H-1,2,4-triazol-1-ylmethyl)butyronitrile | Fenbuconazole | 119 |
| 3-1-120 | 95-57-8 | o-Chlorophenol | | 120 |
| 3-1-121 | 106-48-9 | p-Chlorophenol | | 121 |
| 3-1-122 | 598-78-7 | 2-Chloropropionic acid | | 122 |
| 3-1-123 | 107-05-1 | 3-Chloropropene | Allyl chloride | 123 |
| 3-1-124 | 99485-76-4 | 1-(2-Chlorobenzyl)-3-(1-methyl-1-phenylethyl)urea | Cumyluron | 124 |
| 3-1-125 | 108-90-7 | Chlorobenzene | | 125 |
| 3-1-126 | 76-15-3 | Chloropentafluoroethane | CFC-115 | 126 |
| 3-1-127 | 67-66-3 | Chloroform | | 127 |
| 3-1-128 | 74-87-3 | Chloromethane | Methyl chloride | 128 |
| 3-1-129 | 59-50-7 | 4-Chloro-3-methylphenol | | 129 |
| 3-1-130 | 94-74-6 | (4-Chloro-2-methylphenoxy)acetic acid | MC, MCPA | 130 |
| 3-1-131 | 563-47-3 | 3-Chloro-2-methyl-1-propene | | 131 |
| 3-1-132 | — | Cobalt and its compounds | | 132 |
| | 7440-48-4 | Cobalt | | |
| | 6147-53-1 | Acetic acid, cobalt(2+) salt, tetrahydrate | | |
| | 1307-96-6 | Cobalt oxide | | |
| | 1308-06-1 | Cobalt oxide (Co3O4) | | |
| | 10026-22-9 | Cobalt nitrate, hexahydrate | | |
| | 513-79-1 | Cobalt carbonate | | |
| | 10026-24-1 | Cobalt sulfate, heptahydrate | | |
| | 10026-17-2 | Cobalt(II) fluoride | | |
| | 10124-43-3 | Cobalt sulphate | | |
| | 10141-05-6 | Cobalt dinitrate | | |
| | 10210-68-1 | Cobalt carbonyl | | |
| | 1317-42-6 | Cobalt(II) sulfide | | |
| | 16842-03-8 | Cobalt hydrocarbonyl | | |
| | 7646-79-9 | Cobalt dichloride | | |
| | 7789-43-7 | Cobaltous bromide | | |
| 3-1-133 | 111-15-9 | 2-Ethoxyethyl acetate | Ethylene glycol monoethyl ether acetate | 133 |
| 3-1-134 | 108-05-4 | Vinyl acetate | | 134 |
| 3-1-135 | 110-49-6 | 2-Methoxyethyl acetate | Ethylene glycol monomethyl ether acetate | 135 |
| 3-1-136 | 90-02-8 | Salicylaldehyde | | 136 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-137 | 420-04-2 | Cyanamide | | 137 |
| 3-1-138 | 139920-32-4 | (RS)-2-cyano-N-[(R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethylbutyramide | Diclocymet | 138 |
| 3-1-139 | 66841-25-6 | (S)-alpha-cyano-3-phenoxybenzyl (1R,3S)-2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)cyclopropanecarboxylate | Tralomethrin | 139 |
| 3-1-140 | 39515-41-8 | (RS)-alpha-cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate | Fenpropathrin | 140 |
| 3-1-141 | 57966-95-7 | Trans-1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea | Cymoxanil | 141 |
| 3-1-142 | 615-05-4 | 2,4-Diaminoanisole | | 142 |
| 3-1-143 | 101-80-4 | 4,4'-Diaminodiphenyl ether | | 143 |
| 3-1-144 | — | Inorganic cyanide compounds (except complex salts and cyanates) | | 144 |
| | 557-21-1 | Zinc cyanide | | |
| | 151-50-8 | Potassium cyanide | | |
| | 74-90-8 | Hydrogen cyanide | | |
| | 544-92-3 | Copper cyanide | | |
| | 143-33-9 | Sodium cyanide | | |
| | 506-64-9 | Silver cyanide | | |
| 3-1-145 | 100-37-8 | 2-(Diethylamino)ethanol | | 145 |
| 3-1-146 | 29232-93-7 | O-2-Diethylamino-6-methylpyrimidin-4-yl O,O-dimethyl phosphorothioate | Pirimiphos-methyl | 146 |
| 3-1-147 | 28249-77-6 | S-4-chlorobenzyl N,N-diethylthiocarbamate | Thiobencarb | 147 |
| 3-1-148 | 125306-83-4 | N,N-diethyl-3-(2,4,6-trimethylphenylsulfonyl)-1H-1,2,4-triazole-1-carboxamide | Cafenstrole | 148 |
| 3-1-149 | 56-23-5 | Tetrachloromethane | | 149 |
| 3-1-150 | 123-91-1 | 1,4-Dioxane | | 150 |
| 3-1-151 | 646-06-0 | 1,3-Dioxolane | | 151 |
| 3-1-152 | 15263-53-3 | 1,3-Dicarbamoylthio-2-(N,N-dimethylamino)-propane | Cartap | 152 |
| 3-1-153 | 7696-12-0 | Cyclohex-1-ene-1,2-dicarboximidomethyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate | Tetramethrin | 153 |
| 3-1-154 | 108-91-8 | Cyclohexylamine | | 154 |
| 3-1-155 | 17796-82-6 | N-(cyclohexylthio)phthalimide | | 155 |
| 3-1-156 | 27134-27-6 | Dichloroaniline | | 156 |
| 3-1-157 | 107-06-2 | 1,2-Dichloroethane | | 157 |
| 3-1-158 | 75-35-4 | 1,1-Dichloroethylene | Vinylydene dichloride | 158 |
| 3-1-159 | 156-59-2 | Cis-1,2-dichloroethylene | | 159 |
| 3-1-160 | 101-14-4 | 3,3'-Dichloro-4,4'-diaminodiphenylmethane | | 160 |
| 3-1-161 | 75-71-8 | Dichlorodifluoromethane | CFC-12 | 161 |
| 3-1-162 | 23950-58-5 | 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide | Propyzamide | 162 |
| 3-1-163 | — | Dichlorotetrafluoroethane | CFC-114 | 163 |
| | 1320-37-2 | Dichlorotetrafluoroethane | | |
| | 76-14-2 | 1,2 Dichloro-1,1,2,2tetrafluoroethane | | |
| | 374-07-2 | 1,1-Dichloro-1,2,2,2-tetrafluoroethane | | |
| 3-1-164 | 306-83-2 | 2,2-Dichloro-1,1,1-trifluoroethane | HCFC-123 | 164 |
| 3-1-165 | 95-73-8 | 2,4-Dichlorotoluene | | 165 |
| 3-1-166 | 99-54-7 | 1,2-Dichloro-4-nitrobenzene | | 166 |
| 3-1-167 | 89-61-2 | 1,4-Dichloro-2-nitrobenzene | | 167 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-168 | 36734-19-7 | 3-(3,5-Dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide | Iprodione | 168 |
| 3-1-169 | 330-54-1 | 3-(3,4-Dichlorophenyl)-1,1-dimethylurea | Diuron<br>DCMU | 169 |
| 3-1-170 | 112281-77-3 | (RS)-2-(2,4-Dichlorophenyl)-3-(1H-1,2,4-triazol-1-yl)propyl 1,1,2,2-tetrafluoroethyl ether | Tetraconazole | 170 |
| 3-1-171 | 60207-90-1 | 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 | 171 |
| 3-1-172 | 153197-14-9 | 3-[1-(3,5-Dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one | Oxaziclomefone | 172 |
| 3-1-173 | 50471-44-8 | (RS)-3-(3,5-Dichlorophenyl)-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione | Vinclozolin | 173 |
| 3-1-174 | 330-55-2 | 3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea | Linuron | 174 |
| 3-1-175 | 94-75-7 | 2,4-Dichlorophenoxyacetic acid | 2,4-D,<br>2,4-PA | 175 |
| 3-1-176 | 1717-00-6 | 1,1-Dichloro-1-fluoroethane | HCFC-141b | 176 |
| 3-1-177 | 75-43-4 | Dichlorofluoromethane | HCFC-21 | 177 |
| 3-1-178 | 78-87-5 | 1,2-Dichloropropane | | 178 |
| 3-1-179 | 542-75-6 | 1,3-Dichloropropene | D-D | 179 |
| 3-1-180 | 91-94-1 | 3,3'-Dichlorobenzidine | | 180 |
| 3-1-181 | 95-50-1 | Dichlorobenzene | | 181 |
| | 106-46-7 | 1,4-Dichlorobenzene | | |
| | 541-73-1 | m-Dichlorobenzene | | |
| | 25321-22-6 | Dichlorobenzene | | |
| 3-1-182 | 71561-11-0 | 2-[4-(2,4-Dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyloxy]acetophenone | Pyrazoxyfen | 182 |
| 3-1-183 | 58011-68-0 | 4-(2,4-Dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl 4-toluenesulfonate | Pyrazolynate | 183 |
| 3-1-184 | 1194-65-6 | 2,6-Dichlorobenzonitrile | Dichlobenil,<br>DBN | 184 |
| 3-1-185 | — | Dichloropentafluoropropane | HCFC-225 | 185 |
| 3-1-186 | 75-09-2 | Dichloromethane | Methylene dichloride | 186 |
| 3-1-187 | 3347-22-6 | 2,3-Dicyano-1,4-dithiaanthraquinone | Dithianon | 187 |
| 3-1-188 | 101-83-7 | N,N-dicyclohexylamine | | 188 |
| 3-1-189 | 4979-32-2 | N,N-dicyclohexyl-2-benzothiazolesulfenamide | | 189 |
| 3-1-190 | 77-73-6 | Dicyclopentadiene | | 190 |
| 3-1-191 | 50512-35-1 | Diisopropyl 1,3-dithiolan-2-ylidenemalonate | Isoprothiolane | 191 |
| 3-1-192 | 17109-49-8 | O-ethyl S,S-diphenyl phosphorodithioate | Edifenphos,<br>EDDP | 192 |
| 3-1-193 | 298-04-4 | O,O-diethyl S-2-(ethylthio)ethy phosphorodithioate | Ethylthiometon,<br>disulfoton | 193 |
| 3-1-194 | 2310-17-0 | O,O-diethyl S-(6-chloro-2,3-dihydro-2-oxobenzoxazolinyl)methyl phosphorodithioate | Phosalone | 194 |
| 3-1-195 | 34643-46-4 | O-2,4-dichlorophenyl O-ethyl S-propyl phosphorodithioate | Prothiofos | 195 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-196 | 950-37-8 | S-(2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl O,O-dimethyl phosphorodithioate | Methidathion,<br>DMTP | 196 |
| 3-1-197 | 121-75-5 | O,O-dimethyl S-1,2-bis(ethoxycarbonyl)ethyl phosphorodithioate | Malathon,<br>Malathion | 197 |
| 3-1-198 | 60-51-5 | O,O-dimethyl S-(N-methylcarbamoyl)methyl phosphorodithioate | Dimethoate | 198 |
| 3-1-199 | 16090-02-1 | Disodium2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate] | C.I. Fluorescent 260 | 199 |
| 3-1-200 | 25321-14-6 | Dinitrotoluene | | 200 |
| 3-1-201 | 51-28-5 | 2,4-Dinitrophenol | | 201 |
| 3-1-202 | 91-14-5 | Divinylbenzene | | 202 |
| 3-1-203 | 122-39-4 | Diphenylamine | | 203 |
| 3-1-204 | 101-84-8 | Diphenyl ether | | 204 |
| 3-1-205 | 102-06-7 | 1,3-Diphenylguanidine | | 205 |
| 3-1-206 | 55285-14-8 | 2,3 -Dihydro -2 ,2-dimethyl -7-benzo[b] furyl N-(dibutylamino)thio-N-methylcarbamate | Carbosulfan | 206 |
| 3-1-207 | 128-37-0 | 2,6-Di-tert-butyl-4-cresol | | 207 |
| 3-1-208 | 96-76-4 | 2,4-Di-tert-butylphenol | | 208 |
| 3-1-209 | 124-48-1 | Dibromochloromethane | | 209 |
| 3-1-210 | 10222-01-2 | 2,2-Dibromo-2-cyanoacetamide | | 210 |
| 3-1-211 | — | Dibromotetrafluoroethane | Halone-2402 | 211 |
| | 25497-30-7 | Dibromotetrafluoroethane | | |
| | 124-73-2 | Dibromotetrafluoroethane (Halon 2402) | 1,2-Dibromo tetrafluoroethane | |
| | 27336-23-8 | 1,1-Dibromo-1,2,2,2-tetrafluoroethane | | |
| 3-1-212 | 30560-19-1 | (RS)-O,S-dimethyl acetylphosphoramidothioate | Acephate | 212 |
| 3-1-213 | 127-19-5 | N,N-Dimethylacetamide | | 213 |
| 3-1-214 | 95-68-1 | 2,4-Dimethylaniline | | 214 |
| 3-1-215 | 87-62-7 | 2,6-Dimethylaniline | | 215 |
| 3-1-216 | 121-69-7 | N,N-Dimethylaniline | | 216 |
| 3-1-217 | 31895-21-3 | 5-Dimethylamino-1,2,3-trithiane | Thiocyclam | 217 |
| 3-1-218 | 124-40-3 | Dimethylamine | | 218 |
| 3-1-219 | 624-92-0 | Dimethyl disulfide | | 219 |
| 3-1-220 | | Water-soluble salts of dimethyldithiocarbamic acid | | 220 |
| 3-1-221 | 82560-54-1 | 2,2-Dimethyl-2,3-dihydro-1-benzofuran-7-yl N-[N-(2-ethoxycarbonylethyl)-N-isopropylsulfenamoyl]-N-methylcarbamate | Benfuracarb | 221 |
| 3-1-222 | 62850-32-2 | S-4-phenoxybutyl N,N-dimethylthiocarbamate | Phenothiocarb | 222 |
| 3-1-223 | 112-18-5 | N,N-Dimethyldodecylamine | | 223 |
| 3-1-224 | 1643-20-5 | N,N-dimethyldodecylamine N-oxide | | 224 |
| 3-1-225 | 52-68-6 | Dimethyl 2,2,2-trichloro-1-hydroxyethylphosphonate | Trichlorfon,<br>DEP | 225 |
| 3-1-226 | 57-14-7 | 1,1-Dimethylhydrazine | | 226 |
| 3-1-227 | 1910-42-5 | 1,1'-Dimethyl-4,4'-bipyridinium dichloride | Paraquat,<br>Paraquat dichloride | 227 |
| 3-1-228 | 91-97-4 | 3,3'-Dimethylbiphenyl-4,4'-diyl diisocyanate | | 228 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-229 | 23564-05-8 | Dimethyl 4,4'-(o-phenylene)bis(3-thioallophanate) | Thiophanate-methyl | 229 |
| 3-1-230 | 793-24-8 | N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine | | 230 |
| 3-1-231 | 119-93-7 | 3,3'-Dimethylbenzidine | O-Tolidine | 231 |
| 3-1-232 | 68-12-2 | N,N-dimethylformamide | | 232 |
| 3-1-233 | 2597-03-7 | Ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate | Phenthoate, PAP | 233 |
| 3-1-234 | 7726-95-6 | Bromine | | 234 |
| 3-1-235 | | Water-soluble salts of bromic acid | | 235 |
| 3-1-236 | 3861-47-0 | 3,5-Diiodo-4-octanoyloxybenzonitrile | Ioxynil octanoate | 236 |
| 3-1-237 | — | Mercury and its compounds | | 237 |
| | 7439-97-6 | Mercury | | |
| | 7487-94-7 | Mercury dichloride | | |
| | 1600-27-7 | Mercury(II) acetate | | |
| | 21908-53-2 | Mercury (II) oxide | | |
| | 7789-47-1 | Mercury dibromide | | |
| | 10031-18-2 | Mercury bromides | | |
| | 10045-94-0 | Mercury (II) nitrate | | |
| | 10112-91-1 | Dimercury dichloride | | |
| | 1335-31-5 | Dimercury dicyanide oxide | | |
| | 592-04-1 | Mercury cyanide | | |
| | 592-85-8 | Mercury(II) thiocyanate | | |
| | 7782-86-7 | Nitric acid, mercury(1+) salt, monohydrate | | |
| | 7783-33-7 | Dipotassium tetraiodomercurate | | |
| | 7783-35-9 | Mercury sulphate | | |
| | 102-98-7 | Dihydrogen [orthoborato(3-)-O]phenylmercurate(2-) | | |
| | 62-38-4 | Phenylmercury acetate | | |
| | 1071-39-2 | Diisopropylmercury | | |
| | 107-27-7 | Ethylmercury chloride | | |
| | 115-09-3 | Chloromethylmercury | | |
| | 1184-57-2 | Methylmercury hydroxide | | |
| | 2440-45-1 | Bis(ethylmercury) hydrogen phosphate | | |
| | 502-39-6 | 3-Cyanoguanidinomethylmercury | | |
| | 51622-02-7 | Diheptan-1-ylmercury | | |
| | 543-63-5 | Butan-1-yl(chloro)mercury | | |
| | 593-74-8 | Dimethylmercury | | |
| | 627-44-1 | Diethylmercury | | |
| | 628-85-3 | Dipropan-1-ylmercury | | |
| | 629-35-6 | Mercury, dibutyl- | | |
| | 691-88-3 | Di-sec-butylmercury | | |
| 3-1-238 | 61788-32-7 | Hydrogenated terphenyl | | 238 |
| | 1087-02-1 | 1,4-Dicyclohexylbenzene | | |
| | 20273-27-2 | [1,1'-Bicyclohexyl]-4-ylbenzene | | |
| | 27985-87-1 | Cyclohexyl-1,1'-biphenyl | | |
| | 35860-22-1 | Tercyclohexyl | | |
| 3-1-239 | — | Organic tin compounds | | 239 |
| | 818-08-6 | Dibutyltin oxide | | |
| | 594-27-4 | Tetramethyltin | | |
| | 1461-22-9 | Tributyltin chloride | Tributylchlorostannane | |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| | 2273-43-0 | Butylhydroxyoxostannane | | |
| 3-1-240 | 100-42-5 | Styrene | | 240 |
| 3-1-241 | 4016-24-4 | Sodium salt of 2-sulfohexadecanoic acid 1-methyl ester | | 241 |
| 3-1-242 | — | Selenium and its compounds | | 242 |
| | 7782-49-2 | Selenium | | |
| | 7783-00-8 | Monohydrated selenium dioxide | | |
| | 7783-07-5 | Selenium hydride | | |
| | 7783-08-6 | Selenic acid | | |
| | 7446-08-4 | Selenium dioxide | | |
| | 10102-18-8 | Disodium selenium trioxide | | |
| | 13410-01-0 | Selenic acid, disodium salt | | |
| | 144-34-3 | Selenium tetrakis(dimethyldithiocarbamate) | | |
| | 15123-92-9 | Thallium selenite | | |
| | 26970-82-1 | Sodium selenite pentahydrate | | |
| | 5456-28-0 | Selenium tetrakis(diethyldithiocarbamate) | | |
| | 7446-34-6 | Selenium Sulfide | | |
| | 7488-56-4 | Selenium disulfide | | |
| | 7783-79-1 | Selenium hexafluoride | | |
| | 7791-23-3 | Selenium oxychloride | | |
| 3-1-243 | — | Dioxins | | 243 |
| 3-1-244 | 533-74-4 | 2-Thioxo-3,5-dimethyltetrahydro-2H-1,3,5-thiadiazine | Dazomet | 244 |
| 3-1-245 | 62-56-6 | Thiourea | | 245 |
| 3-1-246 | 108-98-5 | Thiophenol | | 246 |
| 3-1-247 | 77458-01-6 | O-1-(4-Chlorophenyl)-4-pyrazolyl O-ethyl S-propyl phosphorothioate | Pyraclofos | 247 |
| 3-1-248 | 333-41-5 | O,O-Diethyl O-2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate | Diazinon | 248 |
| 3-1-249 | 2921-88-2 | O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate | Chlorpyrifos | 249 |
| 3-1-250 | 18854-01-8 | O,O-Diethyl O-5-phenyl-3-isoxazolyl phosphorothioate | Isoxathion | 250 |
| 3-1-251 | 122-14-5 | O,O-Dimethyl O-3-methyl-4-nitrophenyl phosphorothioate | Fenitrothion, MEP | 251 |
| 3-1-252 | 55-38-9 | O,O-Dimethyl O-3-methyl-4-(methylthio)phenyl phosphorothioate | Fenthion, MPP | 252 |
| 3-1-253 | 41198-08-7 | O-4-Bromo-2-chlorophenyl O-ethyl S-propyl phosphorothioate | Profenofos | 253 |
| 3-1-254 | 26087-47-8 | S-benzyl O,O-diisopropyl phosphorothioate | Iprobenfos, IBP | 254 |
| 3-1-255 | 1163-19-5 | Decabromodiphenyl ether | DecaBDE | 255 |
| 3-1-256 | 334-48-5 | Decanoic acid | | 256 |
| 3-1-257 | 112-30-1 | Decyl alcohol | Decanol | 257 |
| 3-1-258 | 100-97-0 | 1,3,5,7-Tetraazatricyclo[3.3.1.13.7)]decane | Hexamethylenetetramine | 258 |
| 3-1-259 | 97-77-8 | Tetraethylthiuram disulfide | Disulfiram | 259 |
| 3-1-260 | 1897-45-6 | Tetrachloroisophthalonitrile | Chlorothalonil, TPN | 260 |
| 3-1-261 | 27355-22-2 | 4,5,6,7-Tetrachloroisobenzofuran-1(3H)-one | Phthalide | 261 |
| 3-1-262 | 127-18-4 | Tetrachloroethylene | | 262 |
| 3-1-263 | — | Etrachlorodifluoroethane | CFC-112 | 263 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-264 | 118-75-2 | 2,3,5,6-Tetrachloro-p-benzoquinone | | 264 |
| 3-1-265 | 11070-44-3 | Tetrahydromethylphthalic, anhydride | | 265 |
| 3-1-266 | 79538-32-2 | 2,3,5,6-Tetrafluoro-4-methylbenzyl(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate | Tefluthrin | 266 |
| 3-1-267 | 59669-26-0 | 3,7,9,13-Tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12-tetraazapentadeca-3,12-diene-6,10-dione | Thiodicarb | 267 |
| 3-1-268 | 137-26-8 | Tetramethylthiuram disulfide | Thiram | 268 |
| 3-1-269 | 505-32-8 | 3,7,11,15-Tetramethylhexadec-1-en-3-ol | Isophytol | 269 |
| 3-1-270 | 100-21-0 | Terephthalic acid | | 270 |
| 3-1-271 | 120-61-6 | Dimethyl terephthalate | | 271 |
| 3-1-272 | — | Copper salts (water-soluble, except complex salts) | | 272 |
| | 38465-60-0 | Copper(2+) tetrafluoroborate(1-) | | |
| | 12069-69-1 | Copper(II) carbonate--copper(II) hydroxide (1:1) | | |
| | 7447-39-4 | Copper dichloride | | |
| | 13933-17-0 | Copper, diaquadichloro- | | |
| | 7758-98-7 | Copper (II) sulfate | | |
| | 7758-99-8 | Copper(II) sulfate, pentahydrate | | |
| | 1111-67-7 | Copper thiocyanate | | |
| | 544-92-3 | Copper cyanide | | |
| 3-1-273 | 112-53-8 | 1-Dodecanol | n-Dodecyl alcohol | 273 |
| 3-1-274 | 25103-58-6 | tert-Dodecanethiol | | 274 |
| 3-1-275 | 151-21-3 | Sodium dodecyl sulfate | | 275 |
| 3-1-276 | 112-57-2 | 3,6,9-Triazaundecane-1,11-diamine | Tetraethylene-pentamine | 276 |
| 3-1-277 | 121-44-8 | Triethylamine | | 277 |
| | 2399-73-7 | Triethylammonium sulphate (2:1) | | |
| 3-1-278 | 112-24-3 | Triethylenetetramine | | 278 |
| 3-1-279 | 71-55-6 | 1,1,1-Trichloroethane | | 279 |
| 3-1-280 | 79-00-5 | 1,1,2-Trichloroethane | | 280 |
| 3-1-281 | 79-01-6 | Trichloroethylene | | 281 |
| 3-1-282 | 76-03-9 | Trichloroacetic acid | | 282 |
| 3-1-283 | 108-77-0 | 2,4,6-Trichloro-1,3,5-triazine | | 283 |
| 3-1-284 | — | Trichlorotrifluoroethane | CFC-113 | 284 |
| | 26523-64-8 | Trichlorotrifluoroethane | | |
| | 76-13-1 | 1,1,2 Trichloro-1,2,2 trifluoroethane | | |
| | 354-58-5 | Ethane, 1,1,1-trichloro-2,2,2-trifluoro- | | |
| 3-1-285 | 76-06-2 | Trichloronitromethane | Chloropicrin | 285 |
| 3-1-286 | 55335-06-3 | (3,5,6-Trichloro-2-pyridyl)oxyacetic acid | Triclopyr | 286 |
| 3-1-287 | 88-06-2 | 2,4,6-Trichlorophenol | | 287 |
| 3-1-288 | 75-69-4 | Trichlorofluoromethane | CFC-11 | 288 |
| 3-1-289 | 96-18-4 | 1,2,3-Trichloropropane | | 289 |
| 3-1-290 | 87-61-6 | Trichlorobenzene | | 290 |
| | 108-70-3 | 1,3,5-Trichlorobenzene | | |
| | 120-82-1 | 1,2,4-Trichlorobenzene | | |
| | 12002-48-1 | Trichlorobenzene | | |
| 3-1-291 | 2451-62-9 | 1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | | 291 |
| 3-1-292 | 102-82-9 | Tributylamine | | 292 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-293 | 1582-09-8 | α,α,α-Trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine | Trifluralin | 293 |
| 3-1-294 | 118-79-6 | 2,4,6-Tribromophenol | | 294 |
| 3-1-295 | 3452-97-9 | 3,5,5-Timethyl-1-hexanol | | 295 |
| 3-1-296 | 95-63-6 | 1,2,4-Trimethylbenzene | | 296 |
| 3-1-297 | 108-67-8 | 1,3,5-Trimethylbenzene | | 297 |
| 3-1-298 | 91-08-7 | Tolylene diisocyanate | | 298 |
| | 584-84-9 | Benzene, 2,4-disocyanato-1-methyl- | | |
| | 26471-62-5 | Methyl-1,3-phenylene diisocyanate | | |
| 3-1-299 | 95-53-4 | Toluidine | | 299 |
| | 106-49-0 | Aniline, 4-methyl- | p-Toluidine | |
| | 108-44-1 | m-Toluidine | | |
| | 25640-74-8 | Toluidine | | |
| | 26915-12-8 | Toluidine | | |
| 3-1-300 | 108-88-3 | Toluene | | 300 |
| 3-1-301 | 95-80-7 | Toluenediamine | | 301 |
| 3-1-302 | 91-20-3 | Naphthalene | | 302 |
| 3-1-303 | 3173-72-6 | 1,5-Naphthalenediyl diisocyanate | | 303 |
| 3-1-304 | 7439-92-1 | Lead | | 304 |
| 3-1-305 | — | Lead compounds | | 305 |
| | 7439-92-1 | Lead | | |
| | 1317-36-8 | Leadmonoxide | | |
| | 1309-60-0 | Leaddioxide | | |
| | 1314-41-6 | Trilead tetraoxide | | |
| | 7758-97-6 | Lead chromate | | |
| | 20837-86-9 | Lead cyanamide | | |
| | 12626-81-2 | Lead titanium zirconium oxide | | |
| | 301-04-2 | Lead di(acetate) | | |
| | 6080-56-4 | Lead(II) acetate, trihydrate | | |
| | 75-74-1 | Tetramethyl lead | | |
| | 7446-27-7 | Trilead bis(orthophosphate) | | |
| | 1072-35-1 | Lead(II) stearate | | |
| | 10031-13-7 | Lead arsenite | | |
| | 3687-31-8 | Lead arsenate | | |
| | 7784-40-9 | Lead hydrogen arsenate | | |
| | 10099-74-8 | Lead(II) nitrate | | |
| | 10099-76-0 | Lead monosilicate | | |
| | 10214-39-8 | Lead metaborate, monohydrate | | |
| | 12060-00-3 | Lead titanate | | |
| | 1314-87-0 | Lead(II) sulfide | | |
| | 13424-46-9 | Lead diazide | Lead azide | |
| | 18454-12-1 | Lead chromate oxide | | |
| | 25808-74-6 | Lead hexafluorosilicate | | |
| | 39345-91-0 | Lead hydroxide | | |
| | 592-05-2 | Lead(II) cyanide | | |
| | 592-87-0 | Lead(II) thiocyanate | | |
| | 598-63-0 | Lead carbonate | | |
| | 7446-14-2 | Lead sulphate | | |
| | 7758-95-4 | Lead(II) chloride | | |
| | 7783-46-2 | Lead(II) fluoride | | |
| 3-1-306 | 13048-33-4 | Hexamethylene diacrylate | | 306 |
| 3-1-307 | 7699-43-6 | Zirconium dichloride oxide | | 307 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-308 | 7440-02-0 | Nickel | | 308 |
| 3-1-309 | — | Nickel compounds | | 309 |
| | 31794-68-0 | 2-(Dimethylamino)Ethanthiolnickelsalt | | |
| | 12035-72-2 | Nickel subsulfide | | |
| | 557-19-7 | Nickel cyanide | | |
| | 15521-65-0 | Nickel dimethyldithiocarbamate | | |
| | 13463-39-3 | Nickel carbonyl | | |
| | 1271-28-9 | Nickelocene | | |
| | 10028-18-9 | Nickel fluoride (NiF2) | | |
| | 10381-36-9 | Phosphoric acid, nickel(2+) salt (2:3) | | |
| | 12035-72-2 | Nickel subsulfide | | |
| | 1313-99-1 | Nickel oxide | | |
| | 7718-54-9 | Nickel(II) chloride | | |
| | 1314-06-3 | Nickel oxide (Ni2O3) | | |
| | 13478-00-7 | Nickel(II) nitrate, hexahydrate (1:2:6) | | |
| | 13138-45-9 | Nickel nitrate (2+ salt) | | |
| | 6018-89-9 | Nickel acetate, tetrahydrate | | |
| | 373-02-4 | Nickel(II) acetate | | |
| | 12054-48-7 | Nickel hydroxide | | |
| | 3333-67-3 | Nickel carbonate | | |
| | 11113-75-0 | Nickel sulfide | | |
| 3-1-310 | 139-13-9 | Nitrilotriacetic acid | | 310 |
| 3-1-311 | 91-23-6 | o-Nitroanisole | | 311 |
| 3-1-312 | 88-74-4 | o-Nitroaniline | | 312 |
| 3-1-313 | 55-63-0 | Nitroglycerin | | 313 |
| 3-1-314 | 100-00-5 | P-nitrochlorobenzene | | 314 |
| 3-1-315 | 88-72-2 | o-Nitrotoluene | | 315 |
| 3-1-316 | 98-95-3 | Nitrobenzene | | 316 |
| 3-1-317 | 75-52-5 | Nitromethane | | 317 |
| 3-1-318 | 75-15-0 | Carbon disulfide | | 318 |
| 3-1-319 | 143-08-8 | 1-Nonanol | n-Nonyl alcohol | 319 |
| 3-1-320 | 25154-52-3 | Nonylphenol | | 320 |
| 3-1-321 | 1314-62-1 | Vanadium compounds | | 321 |
| | 1314-34-7 | Divanadium trioxide | | |
| | 7632-51-1 | Vanadium tetrachloride | | |
| | 7718-98-1 | Vanadium trichloride | | |
| | 11130-21-5 | Vanadium carbide | | |
| 3-1-322 | 3618-72-2 | 5'-[N,N-Bis(2-acetyloxyethyl)amino]-2'-(2-bromo-4,6-dinitrophenylazo)-4'-methoxyacetanilide | | 322 |
| 3-1-323 | 1014-70-6 | 2,4-Bis(ethylamino)-6-methylthio-1,3,5-triazine | Simetryn | 323 |
| 3-1-324 | 101-90-6 | 1,3-Bis[(2,3-epoxypropyl)oxy]benzene | | 324 |
| 3-1-325 | 10380-28-6 | Bis(8-quinolinolato)copper | Oxine-copper | 325 |
| 3-1-326 | 74115-24-5 | 3,6-Bis(2-chlorophenyl)-1,2,4,5-tetrazine | Clofentezine | 326 |
| 3-1-327 | 782-74-1 | 1,2-Bis(2-chlorophenyl)hydrazine | | 327 |
| 3-1-328 | 137-30-4 | Zinc bis(N,N'-dimethyldithiocarbamate) | Ziram | 328 |
| 3-1-329 | 64440-88-6 | N,N'-Ethylenebis(thiocarbamoylthiozinc)bis(N,N-dimethyldithiocarbamate) | Polycarbamate | 329 |
| 3-1-330 | 80-43-3 | Bis(1-methyl-1-phenylethyl) peroxide | | 330 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-331 | 95465-99-9 | S,S-Bis(1-methylpropyl) O-ethyl phosphorodithioate | Cadusafos | 331 |
| 3-1-332 | — | Arsenic and its inorganic compounds | | 332 |
| | 7440-38-2 | Arsenic | | |
| | 7784-42-1 | Arsine | Hydrogenarsenide | |
| | 1303-28-2 | Diarsenic pentaoxide | | |
| | 7778-39-4 | Arsenic acid | | |
| | 1327-53-3 | Diarsenic trioxide | | |
| 3-1-333 | 302-01-2 | Hydrazine | | 333 |
| 3-1-334 | 99-76-3 | Methyl 4-hydroxybenzoate | | 334 |
| 3-1-335 | 103-90-2 | N-(4-Hydroxyphenyl)acetamide | | 335 |
| 3-1-336 | 123-31-9 | Hydroquinone | | 336 |
| 3-1-337 | 100-40-3 | 4-Vinyl-1-cyclohexene | | 337 |
| 3-1-338 | 100-69-6 | 2-Vinylpyridine | | 338 |
| 3-1-339 | 88-12-0 | N-Vinyl-2-pyrrolidone | | 339 |
| 3-1-340 | 92-52-4 | Biphenyl | | 340 |
| 3-1-341 | 110-85-0 | Piperazine | | 341 |
| 3-1-342 | 110-86-1 | Pyridine | | 342 |
| 3-1-343 | 120-80-9 | Pyrocatechol | | 343 |
| 3-1-344 | 96-09-3 | Phenyloxirane | | 344 |
| 3-1-345 | 100-63-0 | Phenylhydrazine | | 345 |
| 3-1-346 | 90-43-7 | 2-Phenylphenol | | 346 |
| 3-1-347 | 941-69-5 | N-Phenylmaleimide | | 347 |
| 3-1-348 | 95-54-5 | Phenylmaleimide | o-Phenylmaleimide | 348 |
| | 106-50-3 | p-Phenylmaleimide | | |
| | 108-45-2 | m-Phenylmaleimide | | |
| 3-1-349 | 108-95-2 | Phenol | | 349 |
| 3-1-350 | 52645-53-1 | 3-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | Permethrin | 350 |
| 3-1-351 | 106-99-0 | 1,3-Butadiene | | 351 |
| 3-1-352 | 131-17-9 | Diallyl phthalate | | 352 |
| 3-1-353 | 84-66-2 | Diethyl phthalate | | 353 |
| 3-1-354 | 84-74-2 | Di-n-butyl phthalate | | 354 |
| 3-1-355 | 117-81-7 | Bis(2-ethylhexyl)phthalate | | 355 |
| 3-1-356 | 85-68-7 | N-butyl benzyl phthalate | | 356 |
| 3-1-357 | 69327-76-0 | 2-Tert-butylimino-3-isopropyl-5-phenyltetrahydro-4H-1,3,5-thiadiazin-4-one | Buprofezin | 357 |
| 3-1-358 | 112410-23-8 | N-tert-butyl-N'-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide | Tebufenozide | 358 |
| 3-1-359 | 2426-08-6 | n-Butyl-2,3-epoxypropyl ether | | 359 |
| 3-1-360 | 17804-35-2 | Methyl N-[1-(N-n-butylcarbamoyl)-1H-2-benzimidazolyl]carbamate | Benomyl | 360 |
| 3-1-361 | 122008-85-9 | Butyl (R)-2-[4-(4-cyano-2-fluorophenoxy)phenoxy]propionate | Cyhalofop-butyl | 361 |
| 3-1-362 | 80060-09-9 | 1-tert-Butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea | Diafenthiuron | 362 |
| 3-1-363 | 19666-30-9 | 5-tert-Butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazol-2(3H)-one | Oxadiazon | 363 |
| 3-1-364 | 134098-61-6 | Tert - butyl 4 - ({[(1, 3 - dimethyl - 5 - phenoxy - 4 - pyrazolyl) methylidene] aminooxy} methyl) benzoate | Fenpyroximate | 364 |
| 3-1-365 | 88-32-4 | Butylhydroxyanisole | BHA | 365 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| | 121-00-6 | 2-tert-Butyl-4-methoxyphenol | | |
| | 25013-16-5 | tert-Butyl-4-methoxyphenol | | |
| | 31345-37-6 | tert-Butyl(methoxy)phenol | | |
| 3-1-366 | 75-91-2 | tert-Butyl hydroperoxide | | 366 |
| 3-1-367 | 89-72-5 | o-sec-Butylphenol | | 367 |
| 3-1-368 | 98-54-4 | 4-tert-Butylphenol | | 368 |
| 3-1-369 | 2312-35-8 | 2-(4-Tert-butylphenoxy)cyclohexyl 2-propyny sulfite | Propargite, BPPS | 369 |
| 3-1-370 | 96489-71-3 | 2-Tert-butyl-5-(4-tert-butylbenzylthio)-4-chloro-3(2H)-pyridazinone | Pyridaben | 370 |
| 3-1-371 | 119168-77-3 | N - (4 - Tert - butylbenzyl) - 4 - chloro - 3 - ethy - 1 - methylpyrazole - 5 -carboxamide | Tebufenpyrad | 371 |
| 3-1-372 | 95-31-8 | N-(Tert-butyl)-2-benzothiazolesulfenamide | | 372 |
| 3-1-373 | | 2-tert-Butyl-5-methylphenol | | 373 |
| 3-1-374 | — | Hydrogen fluoride and its water-soluble salts | | 374 |
| | 7664-39-3 | Hydrogen fluoride | | |
| | 7783-82-6 | Tungstenhexafluoride | | |
| | 12125-01-8 | Ammoniumfluoride | | |
| | 7681-49-4 | Sodiumfluoride | | |
| | 7787-49-7 | Berylliun fluoride | | |
| 3-1-375 | 123-73-9 | 2-Butenal | | 375 |
| | 4170-30-3 | But-2-enal | | |
| 3-1-376 | 23184-66-9 | N-Butoxymethyl-2-chloro-2',6'-diethylacetanilide | Butachlor | 376 |
| 3-1-377 | 110-00-9 | Furan | | 377 |
| 3-1-378 | 12071-83-9 | Polymer of N,N'-propylenebis (dithiocarbamic acid) and zinc | Propineb | 378 |
| 3-1-379 | 107-19-7 | 2-Propyn-1-ol | | 379 |
| 3-1-380 | 353-59-3 | Bromochlorodifluoromethane | Halone-1211 | 380 |
| 3-1-381 | 75-27-4 | Bromodichloromethane | | 381 |
| 3-1-382 | 75-63-8 | Bromotrifluoromethane | Halone-1301 | 382 |
| 3-1-383 | 314-40-9 | 5-Bromo-3-sec-butyl-6-methyl-1,2,3,4-tetrahydropyrimidine-2,4-dione | Bromacil | 383 |
| 3-1-384 | 106-94-5 | 1-Bromopropane | | 384 |
| 3-1-385 | 75-26-3 | 2Bromopropane | | 385 |
| 3-1-386 | 74-83-9 | Bromomethane | Methyl bromide | 386 |
| 3-1-387 | 13356-08-6 | Hexakis (2-methyl-2-phenylpropyl) distannoxane | Fenbutatin oxide | 387 |
| 3-1-388 | 115-29-7 | 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3 -benzodioxathiepine 3-oxide | Endosulfan | 388 |
| 3-1-389 | 112-02-7 | Hexadecyltrimethylammonium chloride | | 389 |
| 3-1-390 | 124-09-4 | Hexamethylenediamine | | 390 |
| 3-1-391 | 822-06-0 | Hexamethylene diisocyanate | | 391 |
| 3-1-392 | 110-54-3 | n-Hexane | | 392 |
| 3-1-393 | 135-19-3 | Betanaphthol | | 393 |
| 3-1-394 | — | Beryllium and its compounds | | 394 |
| | 7440-41-7 | Beryllium | | |
| | 1304-56-9 | Beryllium oxide | | |
| | 7787-49-7 | Berylliun fluoride | | |
| 3-1-395 | | Water-soluble salts of peroxodisulfuric acid | | 395 |
| 3-1-396 | 1763-23-1 | Perfluoro(octane-1-sulfonic acid) | PFOS | 396 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-397 | 98-07-7 | Benzylidyne trichloride | | 397 |
| 3-1-398 | 100-44-7 | Benzyl chloride | | 398 |
| 3-1-399 | 100-52-7 | Benzaldehyde | | 399 |
| 3-1-400 | 71-43-2 | Benzene | | 400 |
| 3-1-401 | 552-30-7 | 1,2,4-Benzenetricarboxylic 1,2-anhydride | | 401 |
| 3-1-402 | 73250-68-7 | 2-(2-Benzothiazolyloxy)-N-methylacetanilide | Mefenacet | 402 |
| 3-1-403 | 119-61-9 | Benzophenone | | 403 |
| 3-1-404 | 87-86-5 | Pentachlorophenol | | 404 |
| 3-1-405 | — | Boron and its compounds | | 405 |
| | 7440-42-8 | Boron | | |
| | 1332-07-6 | Boric acid, zinc salt | | |
| | 1303-86-2 | Diboron trioxide | Boric oxide | |
| | 7637-07-2 | Borane, trifluoro- | | |
| | 7632-04-4 | Sodium peroxometaborate | | |
| | 10332-33-9 | Sodium perborate, monohydate | | |
| | 10486-00-7 | Sodium perborate, tetrahydrate | | |
| | 1330-43-4 | Disodium tetraborate, anhydrous | Boric acid, disodium salt | |
| | 1303-96-4 | Disodium tetraborate, decahydrate | Borax decahydrate | |
| | 16872-11-0 | Fluoroboricacid | | |
| | 13755-29-8 | Sodiumfluoroborate | | |
| | 14075-53-7 | Potassiumborofluoride | | |
| | 13814-97-6 | Tintetrafluoroborate | | |
| | 38465-60-0 | Coppertetrafluoroborate | | |
| | 12007-89-5 | Ammoniumpentaborate | | |
| | 10043-35-3 | Boric acid | | |
| 3-1-406 | 1336-36-3 | Polychlorinated biphenyls | PCBs | 406 |
| 3-1-407 | — | Poly(oxyethylene) alkyl ether (alkyl C=12-15 | | 407 |
| 3-1-408 | 9036-19-5 | Poly(oxyethylene) octylphenyl ether | | 408 |
| 3-1-409 | 9004-82-4 | Sodium poly(oxyethylene) dodecy ether sulfate | | 409 |
| 3-1-410 | 9016-45-9 | Poly(oxyethylene) nonylphenyl ether | | 410 |
| 3-1-411 | 50-00-0 | Formaldehyde | | 411 |
| 3-1-412 | — | Manganese and its compounds | | 412 |
| | 7439-96-5 | Manganese | | |
| | 7722-64-7 | Potassiumpermanganate | | |
| | 638-38-0 | Manganeseacetate(Ⅱ) | | |
| | 6156-78-1 | Manganeseacetate(Ⅱ), tetrahydrate | | |
| | 10377-66-9 | Manganese(Ⅱ)Nitrate | | |
| | 598-62-9 | Manganesecarbonate(Ⅱ) | | |
| | 1313-13-9 | Manganesedioxide | | |
| | 10124-54-6 | Manganesephosphate | | |
| | 13446-34-9 | Manganesecholoride(Ⅱ), tetrahydrate | | |
| | 10034-96-5 | Manganesesulfate(Ⅱ), monohydrate | | |
| | 10101-50-5 | Sodiumpermanganate | | |
| | 10118-76-0 | Calciumpermanganate | | |
| | 10294-64-1 | Potassiummanganate | | |
| | 10377-62-5 | Magnesiumpermanganate | | |
| | 12228-91-0 | Manganeseborate | | |
| | 7773-01-5 | Manganesechloride | | |
| | 7785-87-7 | Manganesesulfate | | |
| 3-1-413 | 85-44-9 | Phthalic anhydride | | 413 |

## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-414 | 108-31-6 | Maleic anhydride | | 414 |
| 3-1-415 | 79-41-4 | Methacrylic acid | | 415 |
| 3-1-416 | 688-84-6 | 2-Ethylhexyl methacrylate | | 416 |
| 3-1-417 | 106-91-2 | 2,3-Epoxypropyl methacrylate | | 417 |
| 3-1-418 | 2867-47-2 | 2-(Dimethylamino)ethyl methacrylate | | 418 |
| 3-1-419 | 97-88-1 | n-Butyl methacrylate | | 419 |
| 3-1-420 | 80-62-6 | Methyl methacrylate | | 420 |
| 3-1-421 | 674-82-8 | 4-Methylideneoxetan-2-one | | 421 |
| 3-1-422 | 89269-64-7 | (Z)-2'-Methylacetophenone 4,6-dimethyl-2-pyrimidinylhydrazone | Ferimzone | 422 |
| 3-1-423 | 74-89-5 | Methylamine | | 423 |
| 3-1-424 | 556-61-6 | Methyl isothiocyanate | | 424 |
| 3-1-425 | 2631-40-5 | 2-Isopropylphenyl N-methylcarbamate | Isoprocarb, MIPC | 425 |
| 3-1-426 | 1563-66-2 | 2,3-Dihydro-2,2-dimethyl-7-benzo[b]furanyl N-methylcarbamate | carbofuran | 426 |
| 3-1-427 | 63-25-2 | 1-Naphthyl N-methylcarbamate | Carbaryl, NAC | 427 |
| 3-1-428 | 3766-81-2 | 2-Sec-butylphenyl N-methylcarbamate | Fenobucarb, BPMC | 428 |
| 3-1-429 | 100784-20-1 | Methyl 3-chloro-5-(4,6-dimethoxy-2-pyrimidinylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate | Halosulfuron - methyl | 429 |
| 3-1-430 | 173584-44-6 | 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 | 430 |
| 3-1-431 | 131860-33-8 | Methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate | Azoxystrobin | 431 |
| 3-1-432 | 33089-61-1 | 3-Methyl-1,5-di(2,4-xylyl)-1,3,5-triazapenta-1,4-diene | Amitraz | 432 |
| 3-1-433 | 144-54-7 | N-methyldithiocarbamic acid | Carbam | 433 |
| 3-1-434 | 23135-22-0 | Methyl-N',N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooxamimidate | Oxamyl | 434 |
| 3-1-435 | 136191-64-5 | Methyl 2-(4,6-dimethoxy-2-pyrimizinyloxy)-6-[1-(methoxyimino)ethyl]benzoate | Pyriminobac-methyl | 435 |
| 3-1-436 | 98-83-9 | α-Methylstyrene | | 436 |
| 3-1-437 | 3268-49-3 | 3-Methylthiopropanal | | 437 |
| 3-1-438 | 1321-94-4 | Methylnaphthalene | | 438 |
| | 90-12-0 | 1-Methylnaphthalene | | |
| | 91-57-6 | 2-Methylnaphthalene | | |
| 3-1-439 | 108-99-6 | 3-Methylpyridine | | 439 |
| 3-1-440 | 80-15-9 | 1-Methyl-1-phenylethyl hydroperoxide | | 440 |
| 3-1-441 | 88-85-7 | 2-(1-Methylpropyl)-4,6-dinitrophenol | | 441 |
| 3-1-442 | 55814-41-0 | 2-Methyl-N-[3-(1-methylethoxy)phenyl]benzamide | Mepronil | 442 |
| 3-1-443 | 16752-77-5 | S-Methyl-N-(methylcarbamoyloxy)thioacetimidate | Methomyl | 443 |
| 3-1-444 | 141517-21-7 | Methyl (E)-methoxyimino-[2-[[[[(E)-1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]phenyl]acetate | Trifloxystrobin | 444 |



## Table 3 (Substances to be controlled and reduced)

**①Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof of Japan (PRTR Law) : Class I Designated Chemical Substance**

| No. | CAS No. | Substance Name | Synonym | PRTR No. |
|---|---|---|---|---|
| 3-1-445 | 143390-89-0 | Methyl (E)-methoxyimino[2-(o-tolyloxymethyl)phenyl]acetate | Kresoxim-methyl | 445 |
| 3-1-446 | 101-77-9 | 4,4'-Methylenedianiline | | 446 |
| 3-1-447 | 5124-30-1 | Methylenebis(4,1-cyclohexylene)diisocyanate | | 447 |
| 3-1-448 | 101-68-8 | Methylenebis(4,1-phenylene) diisocyanate | | 448 |
| 3-1-449 | 13684-63-4 | 3-Methoxycarbonylaminophenyl 3'-methylcarbanilate | Phenmedipham | 449 |
| 3-1-450 | 88678-67-5 | O-3-Tert-butylphenyl N-(6-methoxy-2-pyridyl)-N-methylthiocarbamate | Pyributicarb | 450 |
| 3-1-451 | 120-71-8 | 2-Methoxy-5-methylaniline | | 451 |
| 3-1-452 | 149-30-4 | 2-Mercaptobenzothiazole | | 452 |
| 3-1-453 | — | Molybdenum and its compounds | | 453 |
| | 7439-98-7 | Molybdenum | | |
| | 1313-27-5 | Molybdeniumtrioxide | | |
| | 12027-67-7 | Ammoniummolybdate, tetrahydrate | | |
| | 7631-95-0 | Sodiummolybdate, dihydrate | | |
| | 10241-05-1 | Molybdeniumchloride(V) | | |
| | 13106-76-8 | Ammoniummolybdate | | |
| | 23412-45-5 | Molybdenumtetrafluoride | | |
| | 7783-77-9 | Molybdenumhexafluoride | | |
| 3-1-454 | 95-32-9 | 2-(Morpholinodithio)benzothiazole | | 454 |
| 3-1-455 | 110-91-8 | Morpholine | | 455 |
| 3-1-456 | 20859-73-8 | Aluminium phosphide | | 456 |
| 3-1-457 | 62-73-7 | Dimethyl 2,2-dichlorovinyl phosphate | Dichlorvos, DDVP | 457 |
| 3-1-458 | 78-42-2 | Tris(2-ethylhexyl) phosphate | | 458 |
| 3-1-459 | 115-96-8 | Tris(2-chloroethyl) phosphate | | 459 |
| 3-1-460 | 1330-78-5 | Tritolyl phosphate | | 460 |
| 3-1-461 | 115-86-6 | Triphenyl phosphate | | 461 |
| 3-1-462 | 126-73-8 | Tri-n-butyl phosphate | | 462 |

## Table 4 (Substances to be controlled and reduced)

### ①EU01 2002/95/EC（RoHS）

| No. | CAS No. | Substance Name | Threshold |
|---|---|---|---|
| 4-1-1 | - | Cadmium and its compounds | 100ppm |
| 4-1-2 | - | Hexavalent chromium and its compounds | 1000ppm |
| 4-1-3 | - | Lead and its compounds | 1000ppm |
| 4-1-4 | - | Mercury and its compounds | 1000ppm |
| 4-1-5 | - | Polybrominated biphenyls (PBBs) | 1000ppm |
| 4-1-6 | - | Polybrominated diphenyl ethers (PBDEs) | 1000ppm |



## Table 4 (Substances to be controlled and reduced)

### ② EU-REACH (EC) No 1907/2006, SVHC (The Candidate List for Annex XIV）

| No. | CAS No. | Substance Name | Date of Inclusion |
|---|---|---|---|
| 4-2-1 | 120-12-7 | Anthracene | 28-Oct-08 |
| 4-2-2 | 101-77-9 | 4,4'- Diaminodiphenylmethane | 28-Oct-08 |
| 4-2-3 | 84-74-2 | Dibutyl phthalate | 28-Oct-08 |
| 4-2-4 | 7646-79-9 | Cobalt dichloride | 28-Oct-08 |
| 4-2-5 | 1303-28-2 | Diarsenic pentaoxide | 28-Oct-08 |
| 4-2-6 | 1327-53-3 | Diarsenic trioxide | 28-Oct-08 |
| 4-2-7 | 7789-12-0<br>10588-01-9 | Sodium dichromate, dihydrate | 28-Oct-08 |
| 4-2-8 | 81-15-2 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 28-Oct-08 |
| 4-2-9 | 117-81-7 | Bis (2-ethylhexyl)phthalate (DEHP) | 28-Oct-08 |
| 4-2-10 | 25637-99-4<br>134237-50-6<br>134237-51-7<br>134237-52-8 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:<br>Alpha-hexabromocyclododecane<br>Beta-hexabromocyclododecane<br>Gamma-hexabromocyclododecane | 28-Oct-08 |
| 4-2-11 | 85535-84-8 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 28-Oct-08 |
| 4-2-12 | 56-35-9 | Bis(tributyltin)oxide | 28-Oct-08 |
| 4-2-13 | 7784-40-9 | Lead hydrogen arsenate | 28-Oct-08 |
| 4-2-14 | 85-68-7 | Benzyl butyl phthalate | 28-Oct-08 |
| 4-2-15 | 15606-95-8 | Triethyl arsenate | 28-Oct-08 |
| 4-2-16 | 90640-80-5 | Anthracene oil | 13-Jan-10 |
| 4-2-17 | 91995-17-4 | Anthracene oil, anthracene paste, distn. lights | 13-Jan-10 |
| 4-2-18 | 91995-15-2 | Anthracene oil, anthracene paste, anthracene fractior | 13-Jan-10 |
| 4-2-19 | 90640-82-7 | Anthracene oil, anthracene-low | 13-Jan-10 |
| 4-2-20 | 90640-81-6 | Anthracene oil, anthracene paste | 13-Jan-10 |
| 4-2-21 | 65996-93-2 | Pitch, coal tar, high temp. | 13-Jan-10 |
| 4-2-22 | - | Aluminiosilicate,<br>Refractory Ceramic Fibres<br>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions:<br>a) $Al_2O_3$ and $SiO_2$ are present within the following concentration ranges:<br>$Al_2O_3$: 43.5 – 47 % w/w, and $SiO_2$: 49.5 – 53.5 % w/w, or<br>$Al_2O_3$: 45.5 – 50.5 % w/w, and $SiO_2$: 48.5 – 54 % w/w,<br>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). | 13-Jan-10 |
| 4-2-23 | - | Zirconia Aluminosilicate,<br>Refractory Ceramic Fibres<br>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions:<br>a) $Al_2O_3$, $SiO_2$ and $ZrO_2$ are present within the following concentration ranges:<br>$Al_2O_3$: 35 – 36 % w/w, and<br>$SiO_2$: 47.5 – 50 % w/w, and<br>$ZrO_2$: 15 - 17 % w/w,<br>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). | 13-Jan-10 |
| 4-2-24 | 121-14-2 | 2,4-Dinitrotoluene | 13-Jan-10 |

## Table 4 (Substances to be controlled and reduced)

### ② EU-REACH (EC) No 1907/2006, SVHC (The Candidate List for Annex XIV)

| No. | CAS No. | Substance Name | Date of Inclusion |
|---|---|---|---|
| 4-2-25 | 84-69-5 | Diisobutyl phthalate | 13-Jan-10 |
| 4-2-26 | 7758-97-6 | Lead chromate | 13-Jan-10 |
| 4-2-27 | 12656-85-8 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 13-Jan-10 |
| 4-2-28 | 1344-37-2 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 13-Jan-10 |
| 4-2-29 | 115-96-8 | Tris(2-chloroethyl)phosphate | 13-Jan-10 |

(Basis for Identification as a SVHC)
CMR: Carcinogen, Mutagen and toxic for Reproduction
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative



## Table 4 (Substances to be controlled and reduced)

### ③ EU-REACH (EC) No 1907/2006, Annex XVII (EC No 552/2009)

| No. | CAS No. | EC No. | Substance Name | Remarks (Threshold, Conditions of restriction) |
|---|---|---|---|---|
| 4-3-1 | - | - | Polychlorinated terphenyls (PCTs) | Over 0,005w% |
| 4-3-2 | 75-01-4 | 200-831-0 | Chloroethene (vinyl chloride) | In aerosols |
| 4-3-3 | - | - | Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC. | For ornamental articles, tricks and jokes and so on |
| 4-3-4 | 126-72-7 | - | Tris (2,3 dibromopropyl) phosphate | In textile articles |
| 4-3-5 | 71-43-2 | 200-753-7 | Benzene | Over 0.1w% (Toys: 0.0005w%) |
| 4-3-6 | - | - | Asbestos fibres | Total prohibition |
| | 12001-28-4 | - | Crocidolite | |
| | 12172-73-5 | - | Amosite | |
| | 77536-67-5 | - | Anthophyllite | |
| | 77536-66-4 | - | Actinolite | |
| | 77536-68-6 | - | Tremolite | |
| | 12001-29-5<br>132207-32-0 | - | Chrysotile | Except diaphragms for existing electrolysis installations |
| 4-3-7 | 545-55-1 | 208-892-5 | Tris(aziridinyl)phosphinoxide | In textile articles |
| 4-3-8 | 59536-65-1 | - | Polybromobiphenyls; Polybrominatedbiphenyls (PBB) | In textile articles |
| 4-3-9 | 68990-67-0 | 273-620-4 | Soap bark powder (Quillaja saponaria) and its derivatives containing saponines | For jokes and hoaxes |
| | - | - | Powder of the roots of Helleborus viridis and Helleborus niger | |
| | - | - | Powder of the roots of Veratrum album and Veratrum nigrum | |
| | 92-87-5 | 202-199-1 | Benzidine and/or its derivatives | |
| | 552-89-6 | 209-025-3 | o-Nitrobenzaldehyde | |
| | - | - | Wood powder | |
| 4-3-10 | 12135-76-1 | 235-223-4 | Ammonium sulphide | For jokes and hoaxes |
| | 12124-99-1 | 235-184-3 | Ammonium hydrogen sulphide | |
| | 9080-17-5 | 232-989-1 | Ammonium polysulphide | |
| 4-3-11 | - | - | Volatile esters of bromoacetic acids: | For jokes and hoaxes |
| | 96-32-2 | 202-499-2 | Methyl bromoacetate | |
| | 105-36-2 | 203-290-9 | Ethyl bromoacetate | |
| | 35223-80-4 | - | Propyl bromoacetate | |
| | 18991-98-5 | 242-729-9 | Butyl bromoacetate | |
| 4-3-12 | 91-59-8 | 202-080-4 | 2-Naphthylamine and its salts | Over 0.1w% |
| 4-3-13 | 92-87-5 | 202-199-1 | Benzidine and its salts | Over 0.1w% |
| 4-3-14 | 92-93-3 | 202-204-7 | 4-Nitrobiphenyl | Over 0.1w% |
| 4-3-15 | 92-67-1 | 202-177-1 | 4-Aminobiphenyl xenylamine and its salts | Over 0.1w% |
| 4-3-16 | - | - | Lead carbonates | In paint |
| | 598-63-0 | 209-943-4 | Neutral anhydrous carbonate $PbCO_3$ | |
| | 1319-46-6 | 215-290-6 | Trilead-bis(carbonate)-dihydroxide $2PbCO_3$-$Pb(OH)_2$ | |
| 4-3-17 | - | - | Lead sulphates | In paint |
| | 7446-14-2 | 231-198-9 | $PbSO_4$ (1:1) | |
| | 15739-80-7 | 239-831-0 | $Pb_xSO_4$ | |

## Table 4 (Substances to be controlled and reduced)

### ③ EU-REACH (EC) No 1907/2006, Annex ⅩⅦ（EC No 552/2009）

| No. | CAS No. | EC No. | Substance Name | Remarks (Threshold, Conditions of restriction) |
|---|---|---|---|---|
| 4-3-18 | - | - | Mercury compounds | In materials to prevent the fouling, preservation of wood and so on *1 |
| 4-3-18a | 7439-97-6 | 231-106-7 | Mercury | In fever thermometers、measuring devices for general public *1 |
| 4-3-19 | - | - | Arsenic compounds | In materials to prevent the fouling, preservation of wood and so on |
| 4-3-20 | - | - | Organostannic compounds | As biocide in paint for boats |
| 4-3-21 | 75113-37-0 | 401-040-5 | Di-μ-oxo-di-n-butylstanniohydroxyborane/ Dibutyltin hydrogen borate（DBB）（$C_8H_{19}BO_3Sn$） | More than 0.1w% |
| 4-3-22 | 87-86-5 | 201-778-6 | Pentachlorophenol and its salts and esters | More than 0.1w% |
| 4-3-23 | 7440-43-9 | 231-152-8 | Cadmium and its compounds | In coloring materials, stabilization agent, cadmium plating, over 0.01w% |
| 4-3-24 | 76253-60-6 | - | Monomethyl — tetrachlorodiphenyl methane : Ugilec141 | Total prohibition |
| 4-3-25 | - | - | Monomethyl-dichloro-diphenyl methane : Ugilec121、Ugilec21 | Total prohibition |
| 4-3-26 | 99688-47-8 | - | Monomethyl-dibromo-diphenyl methane bromobenzylbromotoluene, mixture of isomers : DBBT | Total prohibition |
| 4-3-27 | 7440-02-0 | 231-111-4 | Nickel and its compounds | For articles which contact with the skin |
| 4-3-28 | - | - | Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows:<br>— Carcinogen category 1A (Table 3.1)/carcinogen category 1 (Table 3.2) listed in Appendix 1<br>— Carcinogen category 1B (Table 3.1)/carcinogen category 2 (Table 3.2) listed in Appendix 2 | For supply to the general public |
| 4-3-29 | - | - | Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as follows:<br>— Mutagen category 1A (Table 3.1)/mutagen category 1 (Table 3.2) listed in Appendix 3<br>— Mutagen category 1B (Table 3.1)/mutagen category 2 (Table 3.2) listed in Appendix 4 | For supply to the general public |



## Table 4 (Substances to be controlled and reduced)

### ③ EU-REACH (EC) No 1907/2006, Annex ⅩⅦ（EC No 552/2009）

| No. | CAS No. | EC No. | Substance Name | Remarks (Threshold, Conditions of restriction) |
|---|---|---|---|---|
| 4-3-30 | - | - | Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:<br>— Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5<br>— Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6 | For supply to the general public |
| 4-3-31 | 8001-58-9 | 232-287-5 | Creosote; wash oil | For treatment of wood |
| | 61789-28-4 | 263-047-8 | Creosote oil; wash oil | |
| | 84650-04-4 | 283-484-8 | Distillates (coal tar), naphthalene oils; naphthalene oil | |
| | 90640-84-9 | 283-484-8<br>292-605-3 | Creosote oil, acenaphthene fraction; wash oil | |
| | 65996-91-0 | 266-026-1 | Distillates (coal tar), upper; heavy anthracene oil | |
| | 90640-80-5 | 292-602-7 | Anthracene oil | |
| | 65996-85-2 | 266-019-3 | Tar acids, coal, crude; crude phenols | |
| | 8021-39-4 | 232-419-1 | Creosote, wood | |
| | 122384-78-5 | 310-191-5 | Low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline | |
| 4-3-32 | 67-66-3 | 200-663-8 | Chloroform | In cleaning agents, more than 0.1w% |
| 4-3-34 | 79-00-5 | 201-166-9 | 1,1,2-Trichloroethane | 〃 |
| 4-3-35 | 79-34-5 | 201-197-8 | 1,1,2,2-Tetrachloroethane | 〃 |
| 4-3-36 | 630-20-6 | - | 1,1,1,2-Tetrachloroethane | 〃 |
| 4-3-37 | 76-01-7 | 200-925-1 | Pentachloroethane | 〃 |
| 4-3-38 | 75-35-4 | 200-864-0 | 1,1-Dichloroethene | 〃 |
| 4-3-40 | - | - | Substances meeting the criteria of flammability in Directive 67/548/EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | In aerosol dispensers for supply to the general public |
| 4-3-41 | 67-72-1 | 200-666-4 | Hexachloroethane | For the manufacturing or processing of non-ferrous metals |
| 4-3-42 | 85535-84-8 | 287-476-5 | Alkanes, C 10 -C 13 , chloro (shortchain chlorinated paraffins)（SCCPs） | For metalworking, fat liquoring of leather, over 1% |

## Table 4 (Substances to be controlled and reduced)

### ③ EU-REACH (EC) No 1907/2006, Annex ⅩⅦ（EC No 552/2009）

| No. | CAS No. | EC No. | Substance Name | Remarks (Threshold, Conditions of restriction) |
|---|---|---|---|---|
| 4-3-43 | - | - | Azocolourants and Azodyes | In textile and leather articles which contact with the human skin or oral cavity |
| 4-3-44 | - | - | Diphenylether, pentabromo derivative $C_{12}H_5Br_5O$ | Over 0.1w% |
| 4-3-45 | - | - | Diphenylether, octabromo derivative $C_{12}H_2Br_8O$ | Over 0.1w% |
| 4-3-46 | 25154-52-3 | 246-672-0 | Nonylphenol $C_6H4(OH)C_9H_{19}$ | For cleaning, textiles and leather processing and so on, more than 0.1w% |
| | - | - | Nonylphenol ethoxylates $(C_2H_4O)_nC_{15}H_{24}O$ | |
| 4-3-47 | - | - | Chromium VI compounds | In cement, more than 0.0002w% |
| 4-3-48 | 108-88-3 | 203-625-9 | Toluene | In adhesives or spray paints for the general public, more than 0.1w% |
| 4-3-49 | 120-82-1 | 204-428-0 | Trichlorobenzene | More than 0.1w% |
| 4-3-50 | - | - | Polycyclic-aromatic hydrocarbons (PAH) | In extender oils for production of tyres |
| | 50-32-8 | - | Benzo[a]pyrene (BaP) | |
| | 192-97-2 | - | Benzo[e]pyrene (BeP) | |
| | 56-55-3 | - | Benzo[a]anthracene (BaA) | |
| | 218-01-9 | - | Chrysen (CHR) | |
| | 205-99-2 | - | Benzo[b]fluoranthene (BbFA) | |
| | 205-82-3 | - | Benzo[j]fluoranthene (BjFA) | |
| | 207-08-9 | - | Benzo[k]fluoranthene (BkFA) | |
| | 53-70-3 | - | Dibenzo[a,h]anthracene (DBAhA) | |
| 4-3-51 | - | - | The following phthalates (or other CAS and EC numbers covering the substance): | In toys and childcare articles, over 0.1w% |
| | 117-81-7 | 204-211-0 | Bis (2-ethylhexyl) phthalate (DEHP) | |
| | 84-74-2 | 201-557-4 | Dibutyl phthalate (DBP) | |
| | 85-68-7 | 201-622-7 | Benzyl butyl phthalate (BBP) | |
| 4-3-52 | - | - | The following phthalates (or other CAS- and EC numbers covering the substance): | In toys and childcare articles, over 0.1w% |
| | 28553-12-0<br>68515-48-0 | 249-079-5<br>271-090-9 | Di-“isononyl” phthalate (DINP) | |
| | 26761-40-0<br>68515-49-1 | 247-977-1<br>271-091-4 | Di-“isodecyl” phthalate (DIDP) | |
| | 117-84-0 | 204-214-7 | Di-n-octyl phthalate (DNOP) | |
| 4-3-53 | - | - | Perfluorooctane sulfonates (PFOS) $C_8F_{17}SO_2X$ (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers) | As substances or in mixtures : more than 0.005wt%, in parts : more than 0.1wt%, for textiles more than 1μg/m2 |
| 4-3-54 | 111-77-3 | 203-906-6 | 2-(2-methoxyethoxy)ethanol (DEGME) | In paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants, more than 0.1w% |



## Table 4 (Substances to be controlled and reduced)

### ③ EU-REACH (EC) No 1907/2006, Annex ⅩⅦ（EC No 552/2009）

| No. | CAS No. | EC No. | Substance Name | Remarks (Threshold, Conditions of restriction) |
|---|---|---|---|---|
| 4-3-55 | 112-34-5 | 203-961-6 | 2-(2-butoxyethoxy)ethanol (DEGBE) | In spray paints or spray cleaners in aerosol dispensers for supply to general public, more than 3wt% |
| 4-3-56 | 26447-40-5 | 247-714-0 | Methylenediphenyl diisocyanate (MDI) | For supply to the general public, more than 0.1wt% |
| 4-3-57 | 110-82-7 | 229-347-8 | Cyclohexane | In neoprene-based contact adhesives for supply to general public, more than 0.1wt% |
| 4-3-58 | 6484-52-2 | - | Ammonium nitrate (AN) | As a solid fertiliser, more than 16w% of nitrogen in relation to ammonium |
| 4-3-59 | 75-09-2 | 200-838-9 | Dichloromethane | In paint strippers, more than 0.1w% *2 |

*1 Threshold in battriesor accumulators (2006/66/EC), Mercury ; 0.0005wt%, Cadmium ; 0.002wt%

*2 "Dichloromethane" is listed based on "DECISION No 455/2009/EC of the European Parliament and of the Coucil of 6 May 2009".