

[Attachment 1] Request for building environmentally hazardous substance control system

The suppliers shall control containing in or adhesion to products to be supplied to NTN of materials specified in “**I. NTN-prohibited substances,**” “**II. NTN observation-requisite substances,**” and “**III. Substances to be reported as requested by NTN**” in the list of NTN environmentally hazardous substances shown in **Attachment 4** and build the reporting (to NTN) and assurance system (especially, certification for nonuse of ELV/RoHS 10 substances). The requirements are shown below.

The suppliers can make reference to guidelines for environmentally hazardous substance control published by “Joint Article Management Promotion-consortium (JAMP)” (available from our website).

1 Control of upstream end

1.1 Supply chain

- [1] Make a list of parts, materials, sub-materials, and packaging materials (hereinafter, simply referred to as parts, etc. and packaging materials) composing the products to be supplied to NTN and their suppliers for control.
- [2] Trace the supply chain of parts, etc. and packaging materials back to raw material manufacturers and make a list of them for control.
- [3] Provide your environmentally hazardous substance control criteria to your suppliers, request them to conform to the criteria, and understand the status of environmentally hazardous substance control performed by your suppliers by means of audit or with reference to submitted check sheets.

1.2 Recognition of information on substances contained in parts, etc. and packaging materials

- [1] Obtain composition tables, analytical data, mill sheets, SDS, etc. for parts, etc. and packaging materials from your suppliers or request your suppliers to conduct an investigation to recognize information on environmentally hazardous substances contained in products to be supplied.
- [2] It is required to obtain analytical data on ELV/RoHS 10 substances.
- [3] Obtain information on environmentally hazardous substances contained in sub-materials (process materials possibly to be attached to products to be supplied to NTN)
- [4] Routinely obtain up-to-date information and inquire about unclear points, if any, to your suppliers.

1.3 Design and development control

- [1] Confirm that all the parts, etc. meet the NTN Green Procurement Standard at the stages of design and development.
- [2] Specify the environmentally hazardous substance control criteria, for example, “Shall meet the NTN Green Procurement Standard” on drawings.

2 Process control

2.1 Acceptance inspection

- [1] Perform acceptance inspection on products to be delivered by your suppliers by a method capable of addressing their risks. For example, check the product name and product ID, make reference to information on contained environmentally hazardous substances and analytical data provided by your suppliers, perform internal sampling inspection, and so on.

2.2 Process control

- [1] Differentiate between products containing environmentally hazardous substances and products containing none of these substances to prevent both kinds of products from being mixed.

- [2] Specify the ID numbers and names of some sub-materials, which may be mixed externally, on Summary of operations, etc. (e.g. permanent markers to be used for marking on products).
- [3] Because phthalate esters have high migration characteristics, make sure to recognize parts and packaging materials in the materials and the manufacturing process containing phthalate esters, and substitute them with those without phthalate as much as possible. If it is not possible, take actions to prevent migration, such as separating equipment and jigs.

3 Change control

- [1] Check that the state of environmentally hazardous substances (especially ELV/RoHS 10 substances) contained in parts, etc. has not changed when the design or process is changed.
- [2] If any change is observed, report what type of change has occurred in the “application for approval of process change” and take appropriate actions in accordance with NTN instructions.

4 Actions to be taken in case of abnormalities

- [1] If any abnormality in quality is observed in products to be supplied to NTN such as “NTN-prohibited substances” mixed into or adhered to these products, at delivery, immediately make contact with NTN to receive instructions. Investigate the cause for the abnormality, take actions for prevention of recurrence, and report them to NTN. The contact and reporting format depend on the cases of abnormalities in product quality.

5 Confirmation before shipping

- (1) Be sure to recognize and confirm information on environmentally hazardous substances contained in products to be supplied to NTN before shipping (Establishment of traceability and sharing of information).
- (2) Confirm products to be supplied to NTN by the best method (confirmation described in sections 1 to 4, internal sampling inspection, etc.) capable of addressing the risk of mixing of environmentally hazardous substances in these products.

6 Disclosure of information to NTN

- (1) Disclose information specified in the “NTN Green Procurement Standard” and information necessary for confirmation in accordance with newly added laws or customer standards immediately when requested by NTN.
- (2) If it is known that unreported “NTN-prohibited substances” and “NTN observation-requisite substances”, in particular, are contained in products to be supplied to NTN, voluntarily report it to NTN as soon as possible (**Form 5**).

[Attachment 2] Reporting of no ELV/RoHS 10 substances contained in products to be supplied

Positioning non-containing of ELV/RoHS 10 substances (lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP and DIBP) to be an important quality attribute, NTN makes sure that they are not contained in products to be supplied to NTN. You should report non-containing of these ten kinds of substances to NTN as apart of quality assurance.

1 Confirmation with reference to written non-containing of environmentally hazardous substances in the shipping inspection sheet and the evidence

- Specify “Non-containing of ELV/RoHS 10 substances confirmed” in your shipping inspection standard.
- At the first arrival of new items and the change of processes, for all components, individual and appropriate evidence is obtained from suppliers, or they are analyzed by your company (including outsourced analyses). It is recommended that you obtain evidence from raw material manufacturers in the upstream of the supply chain.)
- Substances which require evidence for each category of procured items in Table 2 of the section 5.3, of the body text, to follow **Attachment 3** for appropriateness of evidence

It should be noted that in some cases we request the suppliers to perform more rigorously confirmation of non-containing of environmentally hazardous substances depending on the risk of mixing of ELV/RoHS 10 substances in products to be supplied to NTN or as requested by our customers.

2 Reporting the result of non-containing confirmation written in the test result report

- Based on the result of confirmation described in the previous section, report the result of ELV/RoHS 10 substance confirmation using the test result report for each of lots. (It is not required to obtain new evidence if no change is made to the process, etc.)

[1] Record the result of non-containing confirmation based on the evidence in your test result report (attach the table shown below to the report and check in the box if applicable).

| Item | Result (check in the applicable boxes and fill the names of substances in spaces). | |
|---|--|---|
| Result of ELV/RoHS 10 substance non-containing confirmation | <input type="checkbox"/> New <input type="checkbox"/> Existing | <input type="checkbox"/> Non-containing confirmed in all the composing parts based on the evidence <input type="checkbox"/> Non-containing confirmed based on the evidence except for _____ as instructed by NTN |
| | <input type="checkbox"/> Change | <input type="checkbox"/> Not changed <input type="checkbox"/> Non-containing confirmed in all the composing parts, to which change was made, based on the evidence |

- * If the test result report has no space for filling the descriptions in the table shown above, submit this table together with the report as an attachment.
 Alternatively, it may be accepted that only the items necessary for delivery are extracted for simplification so that they may be described in the test result report provided that the following requirements are met.
- Obtain agreement of the department, to which products are delivered, in advance.
 - Make sure that it is specified in your procedure, etc. to attach the formal table as an

attachment when you are requested to report the contents of omitted items (“new products” and “when change is made” in the example shown below).

[Example of simplification]

| Item | Confirmation | |
|---|-----------------------------------|--|
| Result of ELV/RoHS 10 substance non-containing confirmation | <input type="checkbox"/> Existing | <input type="checkbox"/> Non-containing confirmed in all the composing parts based on the evidence |

- [2] At the time of the first delivery of new items and process change items, attach the “List of ELV/RoHS 10 substance evidences (**Form 4**),” which is a summary of confirmation results, and the evidence which serves as a basis.

Any products to be delivered, for which no result of non-containing confirmation is described, are considered to be rejected and not accepted by NTN.

3 Exception for reduced description of non-containing confirmation

For products to be supplied to NTN, which meet the **requirements 1 and 2**, it is accepted that the result of non-containing confirmation is added in or attached to the test result report only when new products are initially delivered or changes are made to the design or process. (It is not required to add the result for each lot.)

[Requirement 1] (The description may be reduced provided that both the requirements 1 and 2 are met)

- [1] Products to be analyzed
 Products to be supplied to NTN, which have been formed by any of the forging, turning, grinding, and heat-treatment steps or the combination of them from the materials/formed & fabricated materials supplied by NTN
- [2] Submission of regular report form
 “Check sheet for environmentally hazardous substance control system (**Form 2**)” and “Non-inclusion certification of NTN-prohibited substances (**Form 3**)” shall be submitted to NTN once a year.

[Requirement 2]

As for sub-materials and process materials, submit non-inclusion certification of NTN-prohibited substances (**Form 3**), List of RoHS/ELV 10 substance evidences (**Form 4**) and evidence to support it in advance, and make sure that they are on the accepted product list created by a business site to which you deliver. (For the acceptable product list, contact the purchasing department of each business site.)

[Attachment 3] Conducting analysis of ELV/RoHS 10 substances and preparing evidences

1 Considerations in conducting analysis

- Analysis of ELV/RoHS 10 substances is conducted in accordance with the latest version of IEC 62321* in principle. Any alternative methods may be accepted provided that they are appropriate for analysis.
- If the products to be supplied to NTN are formed of more than one member or are composite materials, each of homogeneous materials of the composing element shall be measured.
- An analytical instrument to be used shall be optimized in advance. The standard specimens (selected specimens suitable for measurement, sample constitution/shape, etc.) shall be measured to obtain the working curve and checked for any variation in instrument (σ value), etc. Make sure that certificate for NTN threshold measurement may be given to the instrument based on the result of checking.

*IEC 62321: “Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated biphenyl ethers)”
International standards established by International Electrotechnical Commission (IEC) regarding test measurement for RoHS analysis.

2 Analysis flow and analysis method

The analysis flow is shown in **Fig. 1** and the analysis method in **Table 1**.

First, conduct a screening analysis, and further perform a high-precision analysis for samples that have higher values than the control value to determine the final acceptance. (Alternatively, perform a high-precision analysis in the first place.)

Make sure that the quantification limit of your analytical method is lower than the controlled value in **Table 1**.

It should be noted that for the model numbers for specific customers, data from high-precision analysis is required because data from screening analysis is not allowed. The data shall be submitted as requested by NTN.

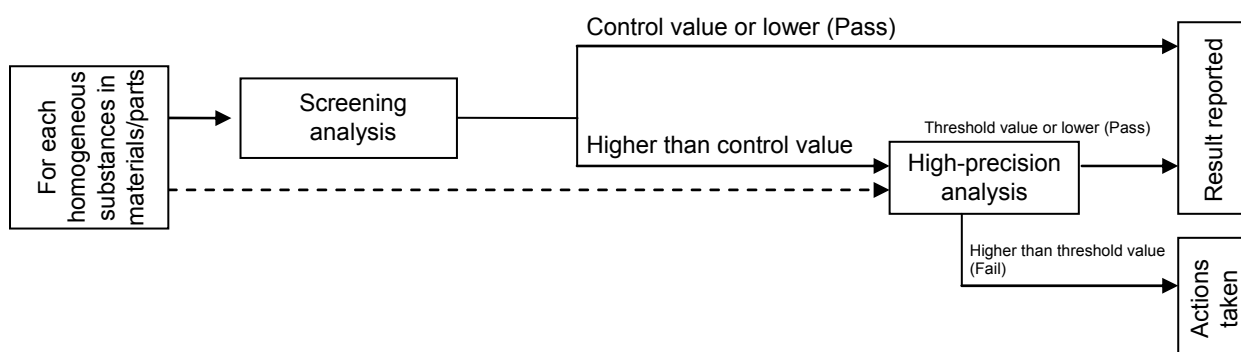


Fig. 1 Analysis flow (When our company separately specifies the method of analysis, follow the instructions)

Table 1 Target substances and analysis methods

| Target substance | Main screening analysis method | High-precision analysis method | Control value | Threshold value ^{*2} |
|--|--|---|--|-------------------------------|
| Lead (Pb) | Fluorescent X-ray analysis (XRF) ^{*1} | (1) Inductively coupled plasma atomic emission spectrometry (ICP-OES) | 500 ppm Resins: 100 ppm | 1000 ppm |
| Mercury (Hg) | | | 500 ppm | 1000 ppm |
| Cadmium (Cd) | | (2) Inductively coupled plasma mass spectrometry (ICP-MS) | 75 ppm Resins: 20 ppm | 100 ppm |
| | | | (3) Atomic absorption spectrometry (AAS) | |
| Hexavalent chromium (Cr ⁶⁺) | | Diphenylcarbazide absorptiometry | 500 ppm | 1000 ppm |
| Two types of specific brominated flame retardants PBB, PBDE | | Solvent extraction – Gas chromatography mass spectrometry (GC/MS) | 500 ppm | 1000 ppm |
| | 500 ppm | | 1000 ppm | |
| Four type of phthalic acid esters DEHP, BBP, DBP, DIBP | Thermal desorption – Gas chromatography mass spectrometry (TD-GC/MS) | 500 ppm | 1000 ppm | |

***1** Confirm the total amount of chromium in the case of hexavalent chromium; confirm the total amount of bromine in the case of PBB and PBDE; and perform a separate high-precision analysis for the sample with a value higher than the control value.

***2** As for the packaging materials, the total amount of lead, mercury, cadmium and hexavalent chromium is 100 ppm or lower, and the amount of the phthalic acid esters is 1000 ppm or lower, respectively

3 External analysis organization

If the analysis is outsourced, request the analysis to the analysis organization certified to **ISO 17025 [JIS Q 17025]**.

Some of the customers shall accept only the evidence that are analyzed by certified organizations. If not analyzed by such an organization, we may have to ask you for re-measurement.

4 Preparing evidences

As for all components, obtain individual appropriate evidence from the supplier, or analyze them according to **sections 2 and 3** described above (including external request analysis). (To reduce the burden of expense in your company, it is highly recommended that you obtain the evidence of raw material manufacturers in the upstream of the supply chain.)

The format of the evidence may be that obtained from the suppliers and analysis organizations and that output from the software of the analysis device of its own company. However, be aware that we may ask you to re-submit the evidence when the information is insufficient.

Summarize the evidence information for each of those components in **Form 4** as the information for each product. The procedure and example of how to fill out the form are shown below.

Procedure and example of how to fill out form

To: Product purchasing department

Prepared on: _____,
 Company name: OO Company
 Division: xx Department

[Form 4] List of ELV/RoHS 10 substance evidences

| | | |
|-------------------------|-------------|--------------|
| Approved by: | Checked by: | Prepared by: |
| | | |
| Author's contact (TEL): | | |

| Product No./name | | Seal (6800LU) | | | | | | | |
|--|-------------------|------------------|----------------|-----|--|--|--|--|--|
| Composing elements | | Rubber | Cored bar | | | | | | |
| | Material name | NBR | SPCC | | | | | | |
| | Report No. | OO-xx | OO-xx | | | | | | |
| Purchasing method | | [3] | [1] | | | | | | |
| Supplier | | Company A | Company B | | | | | | |
| Target environmentally hazardous substances (measured value, 3σ is expressed in ppm) | Lead | Measured value | 50 | 40 | | | | | |
| | | 3σ | 20 | 15 | | | | | |
| | | Measuring method | XRF | XRF | | | | | |
| | | Data source | [3] | [3] | | | | | |
| | Mercury | Measured value | 18 | 30 | | | | | |
| | | 3σ | 10 | 20 | | | | | |
| | | Measuring method | XRF | XRF | | | | | |
| | | Data source | [1] | [3] | | | | | |
| | Cadmium | Measured value | 2 | 15 | | | | | |
| | | 3σ | — | 10 | | | | | |
| | | Measuring method | ICP-AES | XRF | | | | | |
| | | Data source | [3] | [3] | | | | | |
| | Hexavalent chrome | Measured value | 100 | 30 | | | | | |
| | | 3σ | — | — | | | | | |
| | | Measuring method | Absorptiometry | AAS | | | | | |
| | | Data source | [1] | [3] | | | | | |
| | PBB | Measured value | 1 | — | | | | | |
| | | 3σ | — | — | | | | | |
| | | Measuring method | GC/MS | — | | | | | |
| | | Data source | [3] | — | | | | | |
| | PBDE | Measured value | 1 | — | | | | | |
| | | 3σ | — | — | | | | | |
| | | Measuring method | GC/MS | — | | | | | |
| | | Data source | [3] | — | | | | | |
| DEHP | Measured value | 64 | — | | | | | | |
| | Measuring method | TD-GC/MS | — | | | | | | |
| | Data source | [1] | — | | | | | | |
| BBP | Measured value | 103 | — | | | | | | |
| | Measuring method | TD-GC/MS | — | | | | | | |
| | Data source | [1] | — | | | | | | |
| DBP | Measured value | 78 | — | | | | | | |
| | Measuring method | TD-GC/MS | — | | | | | | |
| | Data source | [1] | — | | | | | | |
| DIBP | Measured value | 56 | — | | | | | | |
| | Measuring method | TD-GC/MS | — | | | | | | |
| | Data source | [1] | — | | | | | | |
| Acceptance (Ox) | | O | O | | | | | | |

Fill the element name for each composing element (the homogeneous material for compound materials).

Fill the quantitative/qualitative analysis report No.

Fill an applicable number in the columns.
 [1] Parts to be purchased
 [2] Sub-materials to be purchased
 [3] Materials to be purchased
 [4] Interior parts to be purchased
 [5] NTN-supplied products
 [6] Other

Fill the supplier (manufacture) for supplied products in the column.

Be sure to fill 3σ for fluorescent X-ray analysis.

Fill an applicable abbreviation.
 • EDX (Energy dispersive X-ray spectrometry) (3σ value required)
 • WDX (Wavelength dispersive X-ray spectrometry) (3σ value required)
 • ICP-AES (Inductively coupled plasma emission spectrometry)
 • ICP-MS (Inductively coupled plasma mass spectrometry)
 • AAS (Atomic absorption spectrometry)
 • GC/MS (solvent extraction gas chromatography mass spectroscopy)
 • TD-GC/MS (thermal desorption gas chromatography mass spectroscopy)
 • Absorptiometry (Diphenylcarbazide absorptiometry)

Fill the applicable number in the column.
 [1] Internal measurement
 [2] External measurement (by ISO 17025 certified organization)
 [3] External measurement (by ISO 17025 non-certified organization)
 [4] Measurement by your supplier (by ISO 17025 certified analysis organization) including 2nd- and lower-order suppliers
 [5] Measurement by your supplier (by ISO 17025 non-certified analysis organization) including 2nd- and lower-order suppliers
 [6] Converted value of measured value of material

Fill the result of check on the above items.

Check before submission

- 1) Filled in all columns concerning all composing elements (parts, materials, sub-materials, process materials, and packing/packaging materials).
- 2) Filled the results of checking of all the composing elements in the column Acceptance.

| |
|------|
| O, x |
| O |
| O |

Fig. 2 Procedure and example of how to fill out Form 4

[Attachment 4] NTN environmentally hazardous substances list [I. NTN-prohibited substances]

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Attached table | Any intentional addition prohibited irrespective of threshold |
|---------|--|-----------------|----------------------------------|---|
| P001 | 4-Aminobiphenyl and its salts, all members | | <input type="radio"/> | 30 ppm (0.003%) |
| P002 | Arsenic and its compounds, all members | | <input type="radio"/> | 100 ppm (0.01%) * For steels and semiconductors, report upon request |
| P003 | Asbestos Fibres, all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P004 | Asbestos Mineral, all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P005 | <u>Azodyes that can form carcinogenic amines, selected</u> | | <input checked="" type="radio"/> | <u>1,000 ppm (0.1%)</u> |
| P006 | Benzene | 71-43-2 | | 100 ppm (0.01%) |
| P007 | Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) | 68921-45-9 | | 1,000 ppm (0.1%) |
| P008 | Benzidine and its salts, all members | | <input type="radio"/> | 100 ppm (0.01%) |
| P009 | <u>Biocidal coatings / biocidal additives, selected</u> | | <input checked="" type="radio"/> | <u>1,000 ppm (0.1%)</u> |
| P010 | Bis(chloromethyl) ether (BCME) | 542-88-1 | | 1,000 ppm (0.1%) |
| P011 | Cadmium and its compounds, all members | | <input type="radio"/> | <u>100 ppm (0.01%)</u> |
| P012 | Chlorinated hydrocarbons, selected | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P013 | Chlorinated or brominated Dibenzo-p-dioxins or Dibenzofurans, all members | | <input type="radio"/> | 0.01ppm (10 ppb) |
| P014 | Chlorinated Paraffines, Short and Medium Chain Length (SCCP, MCCP), all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P015 | Chloroaniline | 106-47-8 | | 30 ppm (0.003%) * For grease, report as required |
| P016 | Chloromethyl methyl ether (CMME) | 107-30-2 | | 1,000 ppm (0.1%) |
| P017 | Chromium (VI)-salts, all members | | <input type="radio"/> | <u>1000 ppm (0.1%)</u> |
| P018 | Diamino-diphenylmethane (4,4'-Diaminodiphenylmethane) | 101-77-9 | | 30 ppm (0.003%) * For grease, report as required |
| P019 | <u>2,4 Dinitrotoluene</u> | <u>121-14-2</u> | | <u>1,000 ppm (0.1%)</u> |
| P020 | Diorganotin compounds | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P021 | Dodecachloropentacyclo 1, 3, 4-Metheno-1H-cyclobuta(cd)pentalene, Mirex | 2385-85-5 | | 1,000 ppm (0.1%) |
| P022 | Formaldehyde | 50-00-0 | | 100 ppm (0.01%) |
| P023 | hexabromo-Cyclododecane, (HBCD) | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P024 | Hexachlorobenzene | 118-74-1 | | 0.01ppm (10 ppb) |
| P025 | Hexachloro-1,3-butadiene (HCBd) | 87-68-3 | | 1,000 ppm (0.1%) |
| P026 | Hydrobromofluorocarbons (HBFC's), all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P027 | Hydrochlorofluorocarbons (HCFC's), all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P028 | Hydrofluorocarbons (HFC's), all members | | <input type="radio"/> | 1,000 ppm (0.1%) |
| P029 | Lead and its compounds, all members | | <input type="radio"/> | <u>1000 ppm (0.1%)</u> |
| P030 | Mercury and its compounds, all members | | <input type="radio"/> | <u>1000 ppm (0.1%)</u> |
| P031 | Tetrafluoro-methane | 75-73-0 | | 1,000 ppm (0.1%) |
| P032 | 2-Methoxyethanol | 109-86-4 | | 1,000 ppm (0.1%) |
| P033 | Monomethyl dibromodiphenyl methane (DBBT) | 99688-47-8 | | 1,000 ppm (0.1%) |
| P034 | Monomethyl dichlorodiphenyl methane (Ugilec121, Ugilec21) | 81161-70-8 | | 1,000 ppm (0.1%) |

[Attachment 4] NTN environmentally hazardous substances list [I. NTN-prohibited substances]

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Attached table | Any intentional addition prohibited irrespective of threshold |
|-------------|--|------------|----------------|---|
| P035 | Monomethyl tetrachlorodiphenyl methane (Ugilec141) | 76253-60-6 | | 1,000 ppm (0.1%) |
| P036 | 2-Naphthylamine and its salts, all members | | ○ | 1,000 ppm (0.1%) |
| P037 | 4-Nitrobiphenyl and its salts | 92-93-3 | | 100 ppm (0.01%) |
| P038 | N-Nitrosamines, selected | | ○ | 1,000 ppm (0.1%) |
| P039 | Ozone depleting halogenated Hydrocarbons and Carbons, all members | | ○ | 1,000 ppm (0.1%) |
| P040 | Pentachlorobenzene | 608-93-5 | | 1,000 ppm (0.1%) |
| P041 | Pentachlorophenol (PCP) and its salts, all members | | ○ | 5ppm (0.0005%) |
| P042 | Perchlorates, all members | | ○ | 1,000 ppm (0.1%) |
| P043 | Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) (PFOS), all members | | ○ | 5ppm (0.0005%) |
| <u>P044</u> | <u>PFOA, Perfluorooctanoic acids C8F15O2H, its salts, esters, higher homologues and precursors, all members</u> ^(note 1) | | <u>○</u> | <u>1,000 ppm (0.1%)</u> |
| P045 | Phenol , 2,4,6-tris(1,1-dimethylethyl)- | 732-26-3 | | 1,000 ppm (0.1%) |
| P046 | Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV 320) | 3846-71-7 | | 1,000 ppm (0.1%) |
| P047 | Phthalates, selected | | ○ | 1,000 ppm (0.1%) |
| P048 | Polybrominated biphenyls (PBB), all members | | ○ | <u>1000 ppm (0.1%)</u> |
| P049 | Polybrominated diphenyl ethers (PBDE) ,all members | | ○ | <u>1000 ppm (0.1%)</u> |
| P050 | Polychlorinated biphenyls (PCB), all members | | ○ | 50 ppm (0.005%) |
| P051 | Polychlorinated Naphthalenes, all members | | ○ | 1,000 ppm (0.1%) |
| P052 | Polychlorinated Terphenyls (PCT), all members | | ○ | 10 ppm (0.001%) |
| P053 | Polycyclic aromatic hydrocarbons(PAH; PCAH), selected | | ○ | 10 ppm (0.001%) * For benzo[a]pyrene, 1 ppm |
| P054 | Radioactive substances (including scrap metal contaminants), all members | | ○ | Ambient radiation intensity |
| P055 | Sulfur Hexafluoride | 2551-62-4 | | 1,000 ppm (0.1%) |
| P056 | Tetrachlorobenzene, all members | | ○ | 1,000 ppm (0.1%) |
| P057 | Triorganotin compounds all members | | ○ | 1,000 ppm (0.1%) |
| P058 | Tris-(1-aziridinyl) phosphine oxide | 545-55-1 | | 1,000 ppm (0.1%) |
| P059 | Tris(2,3-dibromopropyl)phosphate [TRIS] | 126-72-7 | | 1,000 ppm (0.1%) |
| P060 | Vinyl chloride | 75-01-4 | | 5 ppm (0.0005%) |
| P061 | "Chemical Substances Control Law" Class I Specified Chemical Substances | | ○(Note 2) | 1,000 ppm (0.1%) |
| P062 | "Industrial Safety and Health Law" manufacturing-prohibited substances | | ○(Note 2) | 1,000 ppm (0.1%) |
| P063 | "Poisonous and Deleterious Substances Control Law" specified poisonous substances | | ○(Note 2) | 1,000 ppm (0.1%) |

(Note 1) Shall be declared until the date specified by NTN.

(Note 2) Listed in another table for reference. Shall refer to the formal up-to-date lists of substances stipulated by laws.

* The underline indicates addition or change.

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|---|--|------------------|
| R001 | Triethyl arsenate | 15606-95-8 | 1,000 ppm (0.1%) |
| R002 | Anthracene | 120-12-7 | 1,000 ppm (0.1%) |
| R003 | 4,4'- Diaminodiphenylmethane (MDA) | 101-77-9 | 1,000 ppm (0.1%) |
| R004 | Dibutyl phthalate (DBP) | 84-74-2 | 1,000 ppm (0.1%) |
| R005 | Cobalt dichloride | 7646-79-9 | 1,000 ppm (0.1%) |
| R006 | Diarsenic pentaoxide | 1303-28-2 | 1,000 ppm (0.1%) |
| R007 | Diarsenic trioxide | 1327-53-3 | 1,000 ppm (0.1%) |
| R008 | Sodium dichromate | 7789-12-0, 10588-01-9 | 1,000 ppm (0.1%) |
| R009 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 1,000 ppm (0.1%) |
| R010 | Bis (2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 1,000 ppm (0.1%) |
| R011 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: (Alpha-,Beta-,Gamma-) | 25637-99-4 and 3194-55-6 (134237-50- 6,134237-51- 7,134237-52-8) | 1,000 ppm (0.1%) |
| R012 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 1,000 ppm (0.1%) |
| R013 | Bis(tributyltin)oxide (TBTO) | 56-35-9 | 1,000 ppm (0.1%) |
| R014 | Lead hydrogen arsenate | 7784-40-9 | 1,000 ppm (0.1%) |
| R015 | Benzyl butyl phthalate (BBP) | 85-68-7 | 1,000 ppm (0.1%) |
| R016 | Anthracene oil | 90640-80-5 | 1,000 ppm (0.1%) |
| R017 | Anthracene oil, anthracene paste, distn.lights | 91995-17-4 | 1,000 ppm (0.1%) |
| R018 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 1,000 ppm (0.1%) |
| R019 | Anthracene oil, anthracene-low | 90640-82-7 | 1,000 ppm (0.1%) |
| R020 | Anthracene oil, anthracene paste | 90640-81-6 | 1,000 ppm (0.1%) |
| R021 | Coal tar pitch, high temperature | 65996-93-2 | 1,000 ppm (0.1%) |
| R022 | 2,4-Dinitrotoluene | 121-14-2 | 1,000 ppm (0.1%) |
| R023 | Diisobutyl phthalate | 84-69-5 | 1,000 ppm (0.1%) |
| R024 | Lead chromate | 7758-97-6 | 1,000 ppm (0.1%) |
| R025 | Lead chromate molybdate sulphate red (C.I Pigment Red 104) | 12656-85-8 | 1,000 ppm (0.1%) |
| R026 | Lead sulfochromate yellow (C.I Pigment Yellow 34) | 1344-37-2 | 1,000 ppm (0.1%) |
| R027 | Tris(2-chloroethyl)phosphate | 115-96-8 | 1,000 ppm (0.1%) |
| R028 | Acrylamide | 79-06-1 | 1,000 ppm (0.1%) |
| R029 | Trichloroethylene | 79-01-6 | 1,000 ppm (0.1%) |
| R030 | Boric acid | 10043-35-3, 11113-50-1 | 1,000 ppm (0.1%) |
| R031 | Disodium tetraborate, anhydrous | 1303-96-4, 1330-43-4, 12179-04-3 | 1,000 ppm (0.1%) |
| R032 | Tetraboron disodium heptaoxide, hydrate | 12267-73-1 | 1,000 ppm (0.1%) |
| R033 | Sodium chromate | 7775-11-3 | 1,000 ppm (0.1%) |

Attachment 4-3 (Observation-requisite substances)

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|---|------------------------|------------------|
| R034 | Potassium chromate | 7789-00-6 | 1,000 ppm (0.1%) |
| R035 | Ammonium dichromate | 7789-09-5 | 1,000 ppm (0.1%) |
| R036 | Potassium dichromate | 7778-50-9 | 1,000 ppm (0.1%) |
| R037 | Cobalt(II) sulphate | 10124-43-3 | 1,000 ppm (0.1%) |
| R038 | Cobalt(II) dinitrate | 10141-05-6 | 1,000 ppm (0.1%) |
| R039 | Cobalt(II) carbonate | 513-79-1 | 1,000 ppm (0.1%) |
| R040 | Cobalt(II) diacetate | 71-48-7 | 1,000 ppm (0.1%) |
| R041 | 2-Methoxyethanol | 109-86-4 | 1,000 ppm (0.1%) |
| R042 | 2-ethoxyethanol | 110-80-5 | 1,000 ppm (0.1%) |
| R043 | Chromium trioxide | 1333-82-0 | 1,000 ppm (0.1%) |
| R044 | Acids generated from chromium trioxide and their oligomers | | 1,000 ppm (0.1%) |
| R045 | Chromic acid | 7738-94-5 | 1,000 ppm (0.1%) |
| R046 | Dichromic acid | 13530-68-2 | 1,000 ppm (0.1%) |
| | Oligimers of chromic acid and dichromic acid | | |
| | 2-ethoxyethyl acetate | 111-15-9 | |
| | Strontium chromate | 7789-06-2 | |
| R047 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 1,000 ppm (0.1%) |
| R048 | Hydrazine | 302-01-2, 7803-57-8 | 1,000 ppm (0.1%) |
| R049 | 1-methyl-2-pyrrolidone | 872-50-4 | 1,000 ppm (0.1%) |
| R050 | 1,2,3-trichloropropane | 96-18-4 | 1,000 ppm (0.1%) |
| R051 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 1,000 ppm (0.1%) |
| R052 | Dichromium tris(chromate) | 24613-89-6 | 1,000 ppm (0.1%) |
| R053 | Potassium hydroxyoctaoxodizincatedi-chromate | 11103-86-9 | 1,000 ppm (0.1%) |
| R054 | Pentazinc chromate octahydroxide | 49663-84-5 | 1,000 ppm (0.1%) |
| R055 | Aluminosilicate Refractory Ceramic Fibres (RCF) | | 1,000 ppm (0.1%) |
| R056 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) | | 1,000 ppm (0.1%) |
| R057 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 1,000 ppm (0.1%) |
| R058 | Bis(2-methoxyethyl) phthalate | 117-82-8 | 1,000 ppm (0.1%) |
| R059 | 2-Methoxyaniline; o-Anisidine | 90-04-0 | 1,000 ppm (0.1%) |
| R060 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) | 140-66-9 | 1,000 ppm (0.1%) |
| R061 | 1,2-Dichloroethane | 107-06-2 | 1,000 ppm (0.1%) |
| R062 | Bis(2-methoxyethyl) ether | 111-96-6 | 1,000 ppm (0.1%) |
| R063 | Arsenic acid | 7778-39-4 | 1,000 ppm (0.1%) |
| R064 | Calcium arsenate | 7778-44-1 | 1,000 ppm (0.1%) |

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|--|------------|------------------|
| R065 | Trilead diarsenate | 3687-31-8 | 1,000 ppm (0.1%) |
| R066 | N,N-dimethylacetamide [DMAC] | 127-19-5 | 1,000 ppm (0.1%) |
| R067 | 2,2'-dichloro-4,4'-methylenedianiline [MOCA] | 101-14-4 | 1,000 ppm (0.1%) |
| R068 | Phenolphthalein | 77-09-8 | 1,000 ppm (0.1%) |
| R069 | Lead azide, Lead diazide | 13424-46-9 | 1,000 ppm (0.1%) |
| R070 | Lead styphnate | 15245-44-0 | 1,000 ppm (0.1%) |
| R071 | Lead dipicrate | 6477-64-1 | 1,000 ppm (0.1%) |
| R072 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 | 1,000 ppm (0.1%) |
| R073 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 1,000 ppm (0.1%) |
| R074 | [4-[4-amino-1-naphthyl]4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidenedimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5 | 1,000 ppm (0.1%) |
| R075 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidenedimethylammonium chloride (C.I. Basic Violet 3) | 548-62-9 | 1,000 ppm (0.1%) |
| R076 | α,α -bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) | 6786-83-0 | 1,000 ppm (0.1%) |
| R077 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (C.I. Solvent Violet 8) | 561-41-1 | 1,000 ppm (0.1%) |
| R078 | Diboron trioxide, boric oxide | 1303-86-2 | 1,000 ppm (0.1%) |
| R079 | Formamide | 75-12-7 | 1,000 ppm (0.1%) |
| R080 | Lead(II) bis(methanesulfonate) | 17570-76-2 | 1,000 ppm (0.1%) |
| R081 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's Base) | 101-61-1 | 1,000 ppm (0.1%) |
| R082 | 4,4'-bis(dimethylamino)benzophenone (Michler's Ketone) | 90-94-8 | 1,000 ppm (0.1%) |
| R083 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 2451-62-9 | 1,000 ppm (0.1%) |
| R084 | β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 59653-74-6 | 1,000 ppm (0.1%) |
| R085 | Pyrochlore, antimony lead yellow | 8012-00-8 | 1,000 ppm (0.1%) |
| R086 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | 1,000 ppm (0.1%) |
| R087 | Henicosafluoroundecanoic acid | 2058-94-8 | 1,000 ppm (0.1%) |
| R088 | Hexahydromethylphthalic anhydride | 25550-51-0 | 1,000 ppm (0.1%) |
| R088 | Hexahydro-4-methylphthalic anhydride | 19438-60-9 | 1,000 ppm (0.1%) |
| R088 | Hexahydro-1-methylphthalic anhydride | 48122-14-1 | 1,000 ppm (0.1%) |
| R088 | Hexahydro-3-methylphthalic anhydride | 57110-29-9 | 1,000 ppm (0.1%) |
| R089 | Cyclohexane-1,2-dicarboxylic anhydride | 85-42-7 | 1,000 ppm (0.1%) |
| R089 | cis-cyclohexane-1,2-dicarboxylic anhydride | 13149-00-3 | 1,000 ppm (0.1%) |
| R089 | trans-cyclohexane-1,2-dicarboxylic anhydride | 14166-21-3 | 1,000 ppm (0.1%) |
| R090 | Dibutyltin dichloride (DBTC) | 683-18-1 | 1,000 ppm (0.1%) |
| R091 | Lead bis(tetrafluoroborate) | 13814-96-5 | 1,000 ppm (0.1%) |
| R092 | Lead dinitrate | 10099-74-8 | 1,000 ppm (0.1%) |
| R093 | Silicic acid, lead salt | 11120-22-2 | 1,000 ppm (0.1%) |

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|--|-------------|------------------|
| R094 | 4-Aminoazobenzene | 60-09-3 | 1,000 ppm (0.1%) |
| R095 | Lead titanium zirconium oxide | 12626-81-2 | 1,000 ppm (0.1%) |
| R096 | Lead monoxide (lead oxide) | 1317-36-8 | 1,000 ppm (0.1%) |
| R097 | o-Toluidine | 95-53-4 | 1,000 ppm (0.1%) |
| R098 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 1,000 ppm (0.1%) |
| R099 | Silicic acid, barium salt, lead-doped | 68784-75-8 | 1,000 ppm (0.1%) |
| R100 | Trilead bis(carbonate)dihydroxide | 1319-46-6 | 1,000 ppm (0.1%) |
| R101 | Furan | 110-00-9 | 1,000 ppm (0.1%) |
| R102 | N,N-dimethylformamide | 68-12-2 | 1,000 ppm (0.1%) |
| R103 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | | 1,000 ppm (0.1%) |
| R104 | 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | | 1,000 ppm (0.1%) |
| R105 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 1,000 ppm (0.1%) |
| R106 | Diethyl sulphate | 64-67-5 | 1,000 ppm (0.1%) |
| R107 | Dimethyl sulphate | 77-78-1 | 1,000 ppm (0.1%) |
| R108 | Lead oxide sulfate | 12036-76-9 | 1,000 ppm (0.1%) |
| R109 | Lead titanium trioxide | 12060-00-3 | 1,000 ppm (0.1%) |
| R110 | Acetic acid, lead salt, basic | 51404-69-4 | 1,000 ppm (0.1%) |
| R111 | [Phthalato(2-)]dioxotrilead | 69011-06-9 | 1,000 ppm (0.1%) |
| R112 | Bis(pentabromophenyl) ether (decabromodiphenyl ether: DecaBDE) | 1163-19-5 | 1,000 ppm (0.1%) |
| R113 | N-methylacetamide | 79-16-3 | 1,000 ppm (0.1%) |
| R114 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 88-85-7 | 1,000 ppm (0.1%) |
| R115 | 1,2-Diethoxyethane | 629-14-1 | 1,000 ppm (0.1%) |
| R116 | Tetralead trioxide sulphate | 12202-17-4 | 1,000 ppm (0.1%) |
| R117 | N-pentyl-isopentylphthalate | 776297-69-9 | 1,000 ppm (0.1%) |
| R118 | Dioxobis(stearato)trilead | 12578-12-0 | 1,000 ppm (0.1%) |
| R119 | Tetraethyllead | 78-00-2 | 1,000 ppm (0.1%) |
| R120 | Pentalead tetraoxide sulphate | 12065-90-6 | 1,000 ppm (0.1%) |
| R121 | Pentacosfluorotridecanoic acid | 72629-94-8 | 1,000 ppm (0.1%) |
| R122 | Tricosfluorododecanoic acid | 307-55-1 | 1,000 ppm (0.1%) |
| R123 | Heptacosfluorotetradecanoic acid | 376-06-7 | 1,000 ppm (0.1%) |
| R124 | 1-bromopropane (n-propyl bromide) | 106-94-5 | 1,000 ppm (0.1%) |
| R125 | Methoxyacetic acid | 625-45-6 | 1,000 ppm (0.1%) |
| R126 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 | 1,000 ppm (0.1%) |

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|---|---------------------------|------------------|
| R127 | Methyloxirane (Propylene oxide) | 75-56-9 | 1,000 ppm (0.1%) |
| R128 | Trilead dioxide phosphonate | 12141-20-7 | 1,000 ppm (0.1%) |
| R129 | o-aminoazotoluene | 97-56-3 | 1,000 ppm (0.1%) |
| R130 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 1,000 ppm (0.1%) |
| R131 | 4,4'-oxydianiline and its salts | 101-80-4 | 1,000 ppm (0.1%) |
| R132 | Orange lead (lead tetroxide) | 1314-41-6 | 1,000 ppm (0.1%) |
| R133 | Biphenyl-4-ylamine | 92-67-1 | 1,000 ppm (0.1%) |
| R134 | Diisopentylphthalate | 605-50-5 | 1,000 ppm (0.1%) |
| R135 | Fatty acids, C16-18, lead salts | 91031-62-8 | 1,000 ppm (0.1%) |
| R136 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 1,000 ppm (0.1%) |
| R137 | Sulfurous acid, lead salt, dibasic | 62229-08-7 | 1,000 ppm (0.1%) |
| R138 | Lead cyanamidate | 20837-86-9 | 1,000 ppm (0.1%) |
| R139 | Cadmium | 7440-43-9 | 1,000 ppm (0.1%) |
| R140 | Cadmium oxide | 1306-19-0 | 1,000 ppm (0.1%) |
| R141 | Dipentyl phthalate (DPP) | 131-18-0 | 1,000 ppm (0.1%) |
| R142 | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | | 1,000 ppm (0.1%) |
| R143 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 1,000 ppm (0.1%) |
| R144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 1,000 ppm (0.1%) |
| R145 | Cadmium sulphide | 1306-23-6 | 1,000 ppm (0.1%) |
| R146 | Dihexyl phthalate | 84-75-3 | 1,000 ppm (0.1%) |
| R147 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 1,000 ppm (0.1%) |
| R148 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7 | 1,000 ppm (0.1%) |
| R149 | Imidazolidine-2-thione; 2-imidazoline-2-thiol | 96-45-7 | 1,000 ppm (0.1%) |
| R150 | Lead di(acetate) | 301-04-2 | 1,000 ppm (0.1%) |
| R151 | Trixylyl phosphate | 25155-23-1 | 1,000 ppm (0.1%) |
| R152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 1,000 ppm (0.1%) |
| R153 | Sodium perborate; perboric acid, sodium salt | | 1,000 ppm (0.1%) |
| R154 | Sodium peroxometaborate | 7632-04-4 | 1,000 ppm (0.1%) |
| R155 | Cadmium chloride | 10108-64-2 | 1,000 ppm (0.1%) |
| R156 | Cadmium fluoride | 7790-79-6 | 1,000 ppm (0.1%) |
| R157 | Cadmium sulphate | 10124-36-4; 31119-53-6 | 1,000 ppm (0.1%) |
| R158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 1,000 ppm (0.1%) |
| R159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 1,000 ppm (0.1%) |

[Attachment 4] NTN environmentally hazardous substances list [II. NTN observation-requisite substances]

* Some of those included in NTN-prohibited substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Threshold |
|---------|---|---|------------------|
| R160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 | 1,000 ppm (0.1%) |
| R161 | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | | 1,000 ppm (0.1%) |
| R162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ? 0.3% of dihexyl phthalate (EC No. 201-559-5) | <u>271-094-0</u> , <u>272-013-1</u> | 1,000 ppm (0.1%) |
| R163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] | | 1,000 ppm (0.1%) |
| R164 | Nitrobenzene | 98-95-3 | 1,000 ppm (0.1%) |
| R165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 | 1,000 ppm (0.1%) |
| R166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 36437-37-3 | 1,000 ppm (0.1%) |
| R167 | 1,3-propanesultone | 1120-71-4 | 1,000 ppm (0.1%) |
| R168 | Perfluorononan-1-oic acid(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts) | 379-95-1 <u>21049-39-8</u> , 4149-60-4 | 1,000 ppm (0.1%) |
| R169 | Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | 1,000 ppm (0.1%) |
| R170 | 4,4'-isopropylidenediphenol (bisphenol A) | 80-05-7 | 1,000 ppm (0.1%) |
| R171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 335-76-2 , <u>3830-45-3</u> , 3108-42-7 | 1,000 ppm (0.1%) |
| R172 | p-(1,1-dimethylpropyl)phenol | 80-46-6 | 1,000 ppm (0.1%) |
| R173 | 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | | 1,000 ppm (0.1%) |
| R174 | Perfluorohexane-1-sulphonic acid and its salts | <u>355-46-4</u> | 1,000 ppm (0.1%) |
| R175 | Chrysene | <u>218-01-9</u> (<u>1719-03-5</u>) | 1,000 ppm (0.1%) |
| R176 | Benzo[anthracene] | <u>56-55-3</u> (<u>1718-53-2</u>) | 1,000 ppm (0.1%) |
| R177 | Cadmium nitrate | <u>10325-94-7</u> (<u>10022-68-1</u>) | 1,000 ppm (0.1%) |
| R178 | Cadmium hydroxide | <u>21041-95-2</u> | 1,000 ppm (0.1%) |
| R179 | Cadmium carbonate | <u>513-78-0</u> | 1,000 ppm (0.1%) |
| R180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12,2,1,16,9,02,13,05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof] | | 1,000 ppm (0.1%) |
| R181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ?0.1% w/w 4-heptylphenol, branched and linear | | 1,000 ppm (0.1%) |

* Any intentional addition shall be declared irrespective of threshold.

* The underline indicates addition or change.

(Note 1) The substances which are applicable to Index No. 650-017-00-8 of CLP Regulation Annex VI, part 3, Table 3.1 and those which are applicable to the following three conditions: a) The oxides of aluminum and silicon are the main components (in fibers) in a variable concentration range. b) The weighted geometric mean of the fiber diameter is equal to or lower than the 2 geometric standard error of 6 µm. c) The amounts of alkali oxide and alkaline earth oxide (Na₂O+K₂O+CaO+MgO+BaO) contained are 18 wt. % or lower.

(Note 2) The substances which are applicable to Index No. 650-017-00-8 of CLP Regulation Annex VI, part 3, Table 3.1 and those which are applicable to the following three conditions: a) The oxides of aluminium, silicon and zirconium are the main components (in fibers) in a variable concentration range. b) The weighted geometric mean of the fiber diameter is equal to or lower than the 2 geometric standard error of 6 µm. c) The amounts of alkali oxide and alkaline earth oxide (Na₂O+K₂O+CaO+MgO+BaO) contained are 18 wt. % or lower.

[Attachment 4] NTN environmentally hazardous substances list [III. Substances to be reported to NTN as required]

* Some of those included in NTN-prohibited and observation-requisite substances are listed.

| NTN No. | Environmentally hazardous substances (group) | CAS-No. | Attached table | Threshold |
|---------|---|---------|-----------------------------|-----------|
| D001 | The substances described in "Global Automotive Declarable Substance List (GADSL)" published by "Global Automotive Stakeholders Group (GASG)" (may be available at http://www.gadsl.org/) | | See the left list. | |
| D002 | <u>Substances listed in "chemSHERPA Controlled Substance List" published by "Joint Article Management Promotion-consortium (JAMP)"</u> Can be downloaded with the "chemSHERPA molded article data creation support tool (including managed substance list)" on (https://chemsherpa.net/chemSHERPA/tool/) * There are two versions of the tool: molded article (AI) and chemicals (CI), of which the molded article (AI) is used" | | See the left list. | |
| D003 | The substances specified by NTN in accordance with domestic and international regal stipulations (including possible ones in future) and customers' criteria | | Follow instructions by NTN. | |

* The underline indicates addition or change.

[Attachment 4] [NTN-prohibited substances: Attached table]

P001 Attached table: 4-Aminobiphenyl and its salts, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-----------|
| P001-001 | 4-Aminobiphenyl | 92-67-1 |
| P001-002 | p-aminobiphenyl hydrochloride | 2113-61-3 |

P002 Attached table: Arsenic and its compounds, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|-------------|
| P002-001 | Cadmium arsenide (Cd3As2) | 12006-15-4 |
| P002-002 | Chromium arsenide (Cr2As) | 12254-85-2 |
| P002-003 | Lead arsenate | 3687-31-8 |
| P002-004 | Lead arsenate | 7784-40-9 |
| P002-005 | Lead arsenate (Pb3(AsO4)2) | 10102-48-4 |
| P002-006 | Lead arsenate, unspecified | 7645-25-2 |
| P002-007 | Lead arsenite | 10031-13-7 |
| P002-008 | Mercuric arsenate | 7784-37-4 |
| P002-009 | 2,6-Dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate | 84282-36-0 |
| P002-010 | 2,6-Dimethyl-4-phenylpyrylium hexafluoroarsenate | 84304-15-4 |
| P002-011 | 4-Cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate | 84304-16-5 |
| P002-012 | 6,6'-Dihydroxy-3,3'-diarsene-1,2-diylidanium dichloride | 139-93-5 |
| P002-013 | Aluminum arsenide (AlAs) | 22831-42-1 |
| P002-014 | Aluminum gallium arsenide ((Al,Ga)As) | 37382-15-3 |
| P002-015 | Ammonium arsenate | 7784-44-3 |
| P002-016 | Ammonium-magnesium-arsenat | 14644-70-3 |
| P002-017 | Antimony arsenate | 28980-47-4 |
| P002-018 | Antimony arsenic oxide | 64475-90-7 |
| P002-019 | Antimony arsenide (Sb3As) | 12255-36-6 |
| P002-020 | Arsenargentite (Ag3As) | 12417-99-1 |
| P002-021 | Arsenate(1-), hexafluoro-, hydrogen | 17068-85-8 |
| P002-022 | Arsenate(1-), hexafluoro-, lithium | 29935-35-1 |
| P002-023 | Arsenate(1-), hexafluoro-, potassium | 17029-22-0 |
| P002-024 | Arsenous acid, lithium salt | 72845-34-2 |
| P002-025 | Arsenic acid | 1327-52-2 |
| P002-026 | Arsenic acid | 7778-39-4 |
| P002-027 | Arsenic acid (H3AsO4), ammonium copper(2+) salt (1:1:1) | 32680-29-8 |
| P002-028 | Arsenic acid (H3AsO4), barium salt (2:3) | 13477-04-8 |
| P002-029 | Arsenic acid (H3AsO4), bismuth salt (1:1) | 13702-38-0 |
| P002-030 | Arsenic acid (H3AsO4), cobalt(2+) salt (2:3) | 24719-19-5 |
| P002-031 | Arsenic acid (H3AsO4), copper salt | 10103-61-4 |
| P002-032 | Arsenic acid (H3AsO4), copper(2+) salt (2:3) | 7778-41-8 |
| P002-033 | Arsenic acid (H3AsO4), dipotassium salt | 21093-83-4 |
| P002-034 | Arsenic acid (H3AsO4), magnesium salt, manganese-doped | 102110-21-4 |
| P002-035 | Arsenic acid (H3AsO4), monoammonium salt | 13462-93-6 |
| P002-036 | Arsenic acid (H3AsO4), strontium salt (2:3) | 13464-68-1 |
| P002-037 | Arsenic acid (H3AsO4), trillithium salt | 13478-14-3 |
| P002-038 | Arsenic acid (H3AsO4), trisilver(1+) salt | 13510-44-6 |
| P002-039 | Arsenic acid, lead (4+) salt | 53404-12-9 |
| P002-040 | Arsenic acid, trisodium salt | 13464-38-5 |
| P002-041 | Arsenic bromide | 64973-06-4 |
| P002-042 | Arsenic bromide | 7784-33-0 |
| P002-043 | Arsenic chloride | 37226-49-6 |
| P002-044 | Arsino thixo | 12044-79-0 |
| P002-045 | Arsenic sulfide (AsS2) | 56320-22-0 |
| P002-046 | Arsenic pentoxide | 1303-28-2 |
| P002-047 | Arsenic selenide (As2Se3) | 1303-36-2 |
| P002-048 | Arsenic sulfide | 12612-21-4 |
| P002-049 | Arsenic sulfide (As2S4) | 12344-68-2 |
| P002-050 | Arsenic telluride (As2Te3) | 12044-54-1 |
| P002-051 | Arsenic trichloride | 60646-36-8 |
| P002-052 | Arsenic trioxide | 1327-53-3 |
| P002-053 | Arsenic trisulfide | 1303-33-9 |
| P002-054 | Arsenic, elemental | 7440-38-2 |
| P002-055 | Arsenopyrite, cobaltoan | 12414-94-7 |
| P002-056 | Arsenous acid, trisodium salt | 13464-37-4 |
| P002-057 | Arsenous trichloride | 7784-34-1 |
| P002-058 | Arsenous triiodide | 7784-45-4 |
| P002-059 | Barium arsenide (Ba3As2) | 12255-50-4 |
| P002-060 | Benzenediazonium, 3-methyl-4-(1-pyrrolidinyl)-, hexafluoroarsenate(1-) | 27569-09-1 |
| P002-061 | Benzenediazonium, 4-(diethylamino)-2-ethoxy-, hexafluoroarsenate(1-) | 63217-33-4 |
| P002-062 | Benzenediazonium, 4-(ethylamino)-2-methyl-, hexafluoroarsenate(1-) | 63217-32-3 |
| P002-063 | Benzenesulfonic acid, 4-arsenoso- | 71130-51-3 |
| P002-064 | Benzenesulfonic acid, 4-arsenoso-, sodium salt | 71130-50-2 |
| P002-065 | Boron(1+), bis(2,4-pentanedionato-O,O'), (T-4)-, hexafluoroarsenate(1-) | 68892-01-3 |
| P002-066 | Calcium arsenate | 10103-62-5 |
| P002-067 | Calcium arsenate | 7778-44-1 |
| P002-068 | Calcium arsenide (Ca3As2) | 12255-53-7 |
| P002-069 | Calcium arsenite | 52740-16-6 |
| P002-070 | Calcium arsenite (2:1) | 15194-98-6 |
| P002-071 | Calcium arsenite (2:3) | 27152-57-4 |
| P002-072 | Cobalt arsenide (CoAs) | 27016-73-5 |
| P002-073 | Cobalt arsenide (CoAs2) | 12044-42-7 |
| P002-074 | Cobalt arsenide (CoAs3) | 12256-04-1 |

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| P002-075 | Copper acetoarsenite | 12002-03-8 |
| P002-076 | Copper arsenate | 29871-13-4 |
| P002-077 | Copper arsenate hydroxide (Cu2(AsO4)(OH)) | 12774-48-0 |
| P002-078 | Copper arsenide (Cu3As) | 12005-75-3 |
| P002-079 | Copper arsenite | 10290-12-7 |
| P002-080 | Copper arsenite | 33382-64-8 |
| P002-081 | Copper diarsenite | 16509-22-1 |
| P002-082 | Diarsenic acid | 13453-15-1 |
| P002-083 | Diphenyldiarsenic acid | 4519-32-8 |
| P002-084 | Disodium hydrogen arsenate (Arsenic acid (H3AsO4), disodium salt, heptahydrate) | 10048-95-0 |
| P002-085 | Disodium hydrogen arsenate (Arsenic acid (H3AsO4), sodium salt (1:2)) | 7778-43-0 |
| P002-086 | Dysprosium arsenide (DyAs) | 12005-81-1 |
| P002-087 | Erbium arsenide (ErAs) | 12254-88-5 |
| P002-088 | Europium arsenide (EuAs) | 32775-46-5 |
| P002-089 | Ferric arsenate | 10102-49-5 |
| P002-090 | Ferric arsenite | 63989-69-5 |
| P002-091 | Ferrous arsenate | 10102-50-8 |
| P002-092 | Gadolinium arsenide (GdAs) | 12005-89-9 |
| P002-093 | Gallium arsenide | 1303-00-0 |
| P002-094 | Gallium arsenide phosphide | 106097-61-4 |
| P002-095 | Digallium arsenide phosphide | 12044-20-1 |
| P002-096 | Gallium zinc triarsenide | 98106-56-0 |
| P002-097 | Germanium arsenide (GeAs) | 12271-72-6 |
| P002-098 | Holmium arsenide (HoAs) | 12005-92-4 |
| P002-099 | Indium arsenide (InAs) | 1303-11-3 |
| P002-100 | Iodonium, diphenyl-, hexafluoroarsenate(1-) | 62613-15-4 |
| P002-101 | Iron arsenide (Fe2As) | 12005-88-8 |
| P002-102 | Iron arsenide (FeAs) | 12044-16-5 |
| P002-103 | Iron arsenide (FeAs2) | 12006-21-2 |
| P002-104 | Lanthanum arsenide (LaAs) | 12255-04-8 |
| P002-105 | Lithium arsenide (Li3As) | 12044-22-3 |
| P002-106 | Lutetium arsenide (LuAs) | 12005-94-6 |
| P002-107 | Magnesium arsenate | 10103-50-1 |
| P002-108 | Magnesium arsenide (Mg3As2) | 12044-49-4 |
| P002-109 | Manganese arsenide (Mn2As) | 12005-96-8 |
| P002-110 | Manganese arsenide (MnAs) | 12005-95-7 |
| P002-111 | Manganese hydrogenarsenate | 7784-38-5 |
| P002-112 | Metaarsenic acid | 10102-53-1 |
| P002-113 | Methylum, triphenyl-, hexafluoroarsenate(1-) | 437-15-0 |
| P002-114 | N-(p-Arsenosophenyl)-1,3,5-triazine-2,4,6-triamine | 21840-08-4 |
| P002-115 | Neodymium arsenide (NdAs) | 12255-09-3 |
| P002-116 | Nickel arsenide (NiAs) | 27016-75-7 |
| P002-117 | Nickel diarsenide | 12068-61-0 |
| P002-118 | Niobium arsenide (NbAs) | 12255-08-2 |
| P002-119 | Platinum arsenide (PtAs2) | 12044-52-9 |
| P002-120 | Potassium arsenate | 7784-41-0 |
| P002-121 | Potassium arsenide (K3As) | 12044-21-2 |
| P002-122 | Potassium arsenite | 10124-50-2 |
| P002-123 | Potassium arsenite | 13464-35-2 |
| P002-124 | Praseodymium arsenide (PrAs) | 12044-28-9 |
| P002-125 | Rammelsbergite (NiAs2) | 1303-22-6 |
| P002-126 | Samarium arsenide (SmAs) | 12255-39-9 |
| P002-127 | Silicic acid (H4SiO4), tetraethyl ester, polymer with arsenic oxide(As2O3) | 68957-75-5 |
| P002-128 | Silicon(1+), tris(2,4-pentanedionato-O,O'), (OC-6-11)-, hexafluoroarsenate(1-) | 67251-38-1 |
| P002-129 | Silver arsenide (Ag2As) | 70333-07-2 |
| P002-130 | Sodium arsenate | 7631-89-2 |
| P002-131 | Sodium arsenide (Na3As) | 12044-25-6 |
| P002-132 | Sodium arsenite | 7784-46-5 |
| P002-133 | Sodium metaarsenate | 15120-17-9 |
| P002-134 | Strontium arsenide (Sr3As2) | 39297-24-0 |
| P002-135 | Strontium arsenite | 15195-06-9 |
| P002-136 | Strontium arsenite | 91724-16-2 |
| P002-137 | Strychnidin-10-one, arsenite (1:1) | 100258-44-4 |
| P002-138 | Strychnine arsenate | 10476-82-1 |
| P002-139 | Sulfonium, triphenyl-, hexafluoroarsenate(1-) | 57900-42-2 |
| P002-140 | Terbium arsenide (TbAs) | 12006-08-5 |
| P002-141 | Thallium arsenide (TlAs) | 12006-09-6 |
| P002-142 | Thallium triarsenide | 84057-85-2 |
| P002-143 | Thulium arsenide (TmAs) | 12006-10-9 |
| P002-144 | Triammonium arsenate | 24719-13-9 |
| P002-145 | Triethyl arsenate | 15606-95-8 |
| P002-146 | Triethyl arsenite | 3141-12-6 |
| P002-147 | Trimanganese arsenide | 61219-26-9 |
| P002-148 | Trinickel bis(arsenate) | 13477-70-8 |
| P002-149 | Tris[(8a,9R)-6'-methoxycinchonan-9(R)-ol] arsenite | 94138-87-1 |
| P002-150 | Tris[(8a,9R)-6'-methoxycinchonan-9-ol] bis(arsenate) | 549-59-7 |
| P002-151 | Vanadium(4+) diarsenate (1:1) | 99035-51-5 |
| P002-152 | Ytterbium arsenide (YbAs) | 12006-12-1 |
| P002-153 | Yttrium arsenide (YAs) | 12255-48-0 |
| P002-154 | Zinc arsenate oxide (Zn5(AsO3)4O3), tetrahydrate | 1303-39-5 |
| P002-155 | Arsenic acid (H3AsO4), zinc salt (2:3) | 13464-44-3 |
| P002-156 | Zinc arsenide (Zn3As2) | 12006-40-5 |
| P002-157 | Zinc arsenide (ZnAs2) | 12044-55-2 |
| P002-158 | Zinc arsenite | 10326-24-6 |
| P002-159 | Zirconium arsenide (ZrAs) | 60909-47-9 |

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| P002-160 | Arsorous acid | 13464-58-9 |
| P002-161 | Arsin | 7784-42-1 |
| P002-162 | Diphenoxarsin-10-yloxid | 58-36-6 |
| P002-163 | Trisilverarsenite | 7784-08-9 |

P003 Attached table: Asbestos Fibres, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|------------|
| P003-001 | Asbestos, actinolite | 77536-66-4 |
| P003-002 | Asbestos, amosite | 12172-73-5 |
| P003-003 | Asbestos, anthophyllite | 77536-67-5 |
| P003-004 | Asbestos, chrysotile | 12001-29-5 |
| P003-005 | Asbestos, crocidolite | 12001-28-4 |
| P003-006 | Asbestos, Tremolite | 77536-68-6 |

P004 Attached table: Asbestos Mineral, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-------------|
| P004-001 | Asbestos | 1332-21-4 |
| P004-002 | Actinolite | 13768-00-8 |
| P004-003 | Tremolite | 14567-73-8 |
| P004-004 | Anthophyllite | 17068-78-9 |
| P004-005 | Actinolite | 12172-67-7 |
| P004-006 | Chrysotile | 132207-32-0 |
| P004-007 | Crocidolite | 132207-33-1 |

P005 Attached table: Azo dyes (which may form carcinogenic amines) (specific)

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-------------|
| P005-001 | C.I. Acid Black 29 | 12217-14-0 |
| P005-002 | C.I. Acid Black 94, C.I.30336 | 6358-80-1 |
| P005-003 | C.I. Acid Black 131 | 12219-01-1 |
| P005-004 | C.I. Acid Black 132 | 12219-02-2 |
| P005-005 | C.I. Acid Black 209 | 72827-68-0 |
| P005-006 | C.I. Acid Brown 415 | 97199-27-4 |
| P005-007 | C.I. Acid Orange 45, C.I.22195 | 2429-80-3 |
| P005-008 | C.I. Acid Red 4, C.I.14710 | 5858-39-9 |
| P005-009 | C.I. Acid Red 5, C.I.14905 | 5858-63-9 |
| P005-010 | C.I. Acid Red 24, C.I.16140 | 5858-30-0 |
| P005-011 | C.I. Acid Red 35, C.I.18065 | 6441-93-6 |
| P005-012 | C.I. Acid Red 85, C.I.22245 | 3567-65-5 |
| P005-013 | C.I. Acid Red 104, C.I.26420 | 8006-06-2 |
| P005-014 | C.I. Acid Red 114, C.I.23635 | 6459-94-5 |
| P005-015 | C.I. Acid Red 115, C.I.27200 | 8005-61-6 |
| P005-016 | C.I. Acid Red 116, C.I.26660 | 6245-62-1 |
| P005-017 | C.I. Acid Red 119,1 | 90880-75-4 |
| P005-018 | C.I. Acid Red 128, C.I.24125 | 6548-30-7 |
| P005-019 | C.I. Acid Red 148, C.I.26665 | 6300-53-4 |
| P005-020 | C.I. Acid Red 150, C.I.27190 | 6226-78-4 |
| P005-021 | C.I. Acid Red 158, C.I.20530 | 8004-55-5 |
| P005-022 | C.I. Acid Red 167 | 61901-41-5 |
| P005-023 | C.I. Acid Red 264, C.I.18133 | 6505-96-0 |
| P005-024 | C.I. Acid Red 265, C.I.18129 | 6358-43-6 |
| P005-025 | C.I. Acid Violet 12, C.I.18075 | 6625-46-3 |
| P005-026 | C.I. Basic Brown 4, C.I.21010 | 5421-66-9 |
| P005-027 | C.I. Basic Red 42 | 12221-66-8 |
| P005-028 | C.I. Basic Red 76, C.I.12245 | 68391-30-0 |
| P005-029 | C.I. Basic Red 111 | 118658-98-3 |
| P005-030 | C.I. Basic Yellow 82 | 12227-67-7 |
| P005-031 | C.I. Direct Black 4, C.I.30245 | 2429-83-6 |
| P005-032 | C.I. Direct Black 29, C.I.22580 | 3626-23-1 |
| P005-033 | C.I. Direct Black 38, C.I.30235 | 1937-37-7 |
| P005-034 | C.I. Direct Black 154 | 37372-50-2 |
| P005-035 | C.I. Direct Blue 1, C.I.24410 | 2610-05-1 |
| P005-036 | C.I. Direct Blue 2, C.I.22590 | 2429-73-4 |
| P005-037 | C.I. Direct Blue 3, C.I.23705 | 2429-72-3 |
| P005-038 | C.I. Direct Blue 6, C.I.22610 | 2602-46-2 |
| P005-039 | C.I. Direct Blue 8, C.I.24140 | 2429-71-2 |
| P005-040 | C.I. Direct Blue 9, C.I.24155 | 6428-98-4 |
| P005-041 | C.I. Direct Blue 10, C.I.24340 | 4198-19-0 |
| P005-042 | C.I. Direct Blue 14, C.I.23850 | 72-57-1 |
| P005-043 | C.I. Direct Blue 15, C.I.24400 | 2429-74-5 |
| P005-044 | C.I. Direct Blue 21, C.I.23710 | 6420-09-3 |
| P005-045 | C.I. Direct Blue 22, C.I.24280 | 2586-57-4 |
| P005-046 | C.I. Direct Blue 25, C.I.23790 | 2150-54-1 |
| P005-047 | C.I. Direct Blue 35, C.I.24145 | 6473-33-2 |
| P005-048 | C.I. Direct Blue 151, C.I.24175 | 110735-25-6 |
| P005-049 | C.I. Direct Blue 160 | 12222-02-5 |
| P005-050 | C.I. Direct Blue 173 | 12235-72-2 |
| P005-051 | C.I. Direct Blue 192 | 71838-51-2 |
| P005-052 | C.I. Direct Blue 215, C.I.24415 | 6771-80-8 |
| P005-053 | C.I. Direct Blue 295, C.I.23820 | 6420-22-0 |
| P005-054 | C.I. Direct Brown 1, C.I.30045 | 3811-71-0 |
| P005-055 | C.I. Direct Brown 1:2, C.I.30110 | 2586-58-5 |
| P005-056 | C.I. Direct Brown 2, C.I.22311 | 2429-82-5 |
| P005-057 | C.I. Direct Brown 6, C.I.30140 | 2893-80-3 |
| P005-058 | C.I. Direct Brown 25, C.I.36030 | 33363-87-0 |
| P005-059 | C.I. Direct Brown 27, C.I.31725 | 6360-29-8 |
| P005-060 | C.I. Direct Brown 31, C.I.35660 | 2429-81-4 |
| P005-061 | C.I. Direct Brown 33, C.I.35520 | 1324-87-4 |
| P005-062 | C.I. Direct Brown 51, C.I.31710 | 4623-91-0 |
| P005-063 | C.I. Direct Brown 59, C.I.22345 | 3476-90-2 |
| P005-064 | C.I. Direct Brown 74, C.I.36300 | 8014-91-3 |

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| P005-065 | C.I. Direct Brown 79, C.I.30050 | 6483-77-8 |
| P005-066 | C.I. Direct Brown 95, C.I.30145 | 16071-86-6 |
| P005-067 | C.I. Direct Brown 101, C.I.31740 | 3626-29-7 |
| P005-068 | C.I. Direct Brown 154, C.I.30120 | 6360-54-9 |
| P005-069 | C.I. Direct Brown 222, C.I.30368 | 64743-15-3 |
| P005-070 | C.I. Direct Brown 223 | 76930-14-8 |
| P005-071 | C.I. Direct Green 1, C.I.30280 | 3626-28-6 |
| P005-072 | C.I. Direct Green 6, C.I.30295 | 4335-09-5 |
| P005-073 | C.I. Direct Green 8, C.I.30315 | 5422-17-3 |
| P005-074 | C.I. Direct Green 8:1 | 76012-70-9 |
| P005-075 | C.I. Direct Green 85, C.I.30387 | 72390-60-4 |
| P005-076 | C.I. Direct Orange 1, C.I.22370 | 54579-28-1 |
| P005-077 | C.I. Direct Orange 6 | 6637-88-3 |
| P005-078 | C.I. Direct Orange 7, C.I.23380 | 2868-76-0 |
| P005-079 | C.I. Direct Orange 8, C.I.22130 | 2429-79-0 |
| P005-080 | C.I. Direct Orange 10, C.I.23370 | 6405-94-3 |
| P005-081 | C.I. Direct Orange 108, C.I.29173 | 6358-79-8 |
| P005-082 | C.I. Direct Red 1, C.I.22310 | 2429-84-7 |
| P005-083 | C.I. Direct Red 2, C.I.23500 | 992-59-6 |
| P005-084 | C.I. Direct Red 7, C.I.24100 | 2868-75-9 |
| P005-085 | C.I. Direct Red 10, C.I.22145 | 2429-70-1 |
| P005-086 | C.I. Direct Red 13, C.I.22155 | 1937-35-5 |
| P005-087 | C.I. Direct Red 17, C.I.22150 | 2769-07-5 |
| P005-088 | C.I. Direct Red 21, C.I.23560 | 6406-01-5 |
| P005-089 | C.I. Direct Red 22, C.I.23565 | 6448-80-2 |
| P005-090 | C.I. Direct Red 24, C.I.29185 | 6420-44-6 |
| P005-091 | C.I. Direct Red 26, C.I.29190 | 3687-80-7 |
| P005-092 | C.I. Direct Red 28, C.I.22120 | 573-58-0 |
| P005-093 | C.I. Direct Red 37, C.I.22240 | 3530-19-6 |
| P005-094 | C.I. Direct Red 39, C.I.23630 | 6358-29-8 |
| P005-095 | C.I. Direct Red 44, C.I.22500 | 2302-97-8 |
| P005-096 | C.I. Direct Red 46, C.I.23050 | 6548-29-4 |
| P005-097 | C.I. Direct Red 62, C.I.29175 | 6420-43-5 |
| P005-098 | C.I. Direct Red 67, C.I.23505 | 6598-56-7 |
| P005-099 | C.I. Direct Red 72, C.I.29200 | 8005-64-9 |
| P005-100 | C.I. Direct Violet 1, C.I.22570 | 2586-60-9 |
| P005-101 | C.I. Direct Violet 4, C.I.22555 | 6472-95-3 |
| P005-102 | C.I. Direct Violet 12, C.I.22550 | 2429-75-6 |
| P005-103 | C.I. Direct Violet 13, C.I.2480 | 13478-92-7 |
| P005-104 | C.I. Direct Violet 21, C.I.23520 | 6470-45-7 |
| P005-105 | C.I. Direct Violet 22, C.I.22480 | 6426-67-1 |
| P005-106 | C.I. Direct Yellow 1, C.I.22250 | 6472-91-9 |
| P005-107 | C.I. Direct Yellow 24, C.I.22010 | 6486-29-9 |
| P005-108 | C.I. Direct Yellow 48, C.I.23660 | 6459-97-8 |
| P005-109 | C.I. Disperse Orange 60 | 12270-44-9 |
| P005-110 | C.I. Disperse Orange 149 | 151126-94-2 |
| P005-111 | C.I. Disperse Red 151, C.I.26130 | 61968-47-6 |
| P005-112 | C.I. Disperse Red 221 | 64426-35-3 |
| P005-113 | C.I. Disperse Yellow 7, C.I.26090 | 6300-37-4 |
| P005-114 | C.I. Disperse Yellow 23, C.I.26070 | 6250-23-3 |
| P005-115 | C.I. Disperse Yellow 56 | 54077-16-6 |
| P005-116 | C.I. Disperse Yellow 218 | 83929-90-2 |
| P005-117 | C.I. Mordant Yellow 16 | 8003-87-0 |
| P005-118 | C.I. Solvent Red 1, C.I.12150 | 1229-55-6 |
| P005-119 | C.I. Solvent Red 19, C.I.26050 | 6368-72-5 |
| P005-120 | C.I. Solvent Red 23, C.I.26100 | 85-86-9 |
| P005-121 | C.I. Solvent Red 24, C.I.26105 | 85-83-6 |
| P005-122 | C.I. Solvent Red 26, C.I.26120 | 4477-79-6 |
| P005-123 | C.I. Solvent Red 68 | 61813-90-9 |
| P005-124 | C.I. Solvent Red 69, C.I.27290 | 5413-75-2 |
| P005-125 | C.I. Solvent Red 164 | 71819-51-7 |
| P005-126 | C.I. Solvent Red 215 | 85203-90-3 |
| P005-127 | C.I. Solvent Yellow 72 | 4645-07-2 |
| P005-128 | Trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-) | 118685-33-9 |

P008 Attached table: Benzidine and its salts, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|------------|
| P008-001 | Benzidine | 92-87-5 |
| P008-002 | Benzidine acetate | 36341-27-2 |
| P008-003 | Benzidine salt | 531-86-2 |
| P008-004 | Benzidine sulphate | 21136-70-9 |
| P008-005 | Benzidine, Ni(2+) salt | 67632-50-2 |
| P008-006 | [1,1'-Biphenyl]-4,4'-diamine, dihydrochloride | 531-85-1 |
| P008-007 | [1,1'-Biphenyl]-4,4'-diamine, 2,2'-dichloro-, sulfate (1:1) | 70146-07-5 |
| P008-008 | 3,3'-Dichlorobenzidine dihydrochloride | 612-83-9 |
| P008-009 | 3,3'-Dimethylbenzidine dihydrochloride | 612-82-8 |
| P008-010 | 4,4'-Diaminodiphenyl-2,2'-disulfonic acid disodium salt | 27336-24-9 |
| P008-011 | Acid Black 7 | 8004-59-9 |
| P008-012 | C.I. Acid red 85 | 3567-65-5 |
| P008-013 | C.I. Direct black 38 | 1937-37-7 |
| P008-014 | C.I. Direct black 4, disodium salt | 2429-83-6 |
| P008-015 | C.I. Direct blue 6 | 2602-46-2 |
| P008-016 | C.I. Direct blue 2, trisodium salt | 2429-73-4 |
| P008-017 | C.I. Direct brown 1 | 3811-71-0 |
| P008-018 | C.I. Direct brown 2, disodium salt | 2429-82-5 |
| P008-019 | C.I. Direct brown 154 | 6360-54-9 |
| P008-020 | C.I. Direct brown 31, tetrasodium salt | 2429-81-4 |
| P008-021 | C.I. Direct brown 59, disodium salt | 3476-90-2 |

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| P008-022 | C.I. Direct brown 6, disodium salt | 2893-80-3 |
| P008-023 | C.I. Direct brown 95 | 16071-86-6 |
| P008-024 | C.I. Direct green 1, disodium salt | 3626-28-6 |
| P008-025 | C.I. Direct green 6, disodium salt | 4335-09-5 |
| P008-026 | C.I. Direct green 8, trisodium salt | 5422-17-3 |
| P008-027 | C.I. Direct red 1, disodium salt | 2429-84-7 |
| P008-028 | C.I. Direct red 28 | 573-58-0 |
| P008-029 | C.I. Direct red 37 | 3530-19-6 |
| P008-030 | C.I. Direct violet 22, trisodium salt | 6426-67-1 |
| P008-031 | Direct Orange 1 | 13164-93-7 |
| P008-032 | Benzoic acid, 5-[[4'-[(1-amino-4-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt | 2429-79-0 |
| P008-033 | Trypan blue (C.I. Direct Blue 14) | 72-57-1 |
| P008-034 | Benzoic acid, 3,3'-[[3,7-disulfo-1,5-naphthalenediyl]bis[azo(6-hydroxy-3,1-phenylene)azo(6(or 7)-sulfo-4,1-naphthalenediyl)azo[1,1'-biphenyl]-4,4'-diylazo]]bis[6-hydroxy-, hexasodium salt | 8014-91-3 |
| P008-035 | 3,3'-Dichlorobenzidine | 91-94-1 |
| P008-036 | 3,3'-Dimethoxybenzidine | 119-90-4 |
| P008-037 | 3,3'-Dimethylbenzidine | 119-93-7 |
| P008-038 | Salts from 3,3'-Dimethoxybenzidine | |
| P008-039 | Dipotassium O,O'-(4,4'-diaminobiphenyl-3,3'-ylene) diglycolate | 74220-10-3 |

P009 Attached table: Biocidal coating / sterilization additives (specific)

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|-------------|
| P009-001 | (+/-)-1-(beta-allyloxy-2,4-dichlorophenylethyl)imidazole; Technical grade imazalil | 73790-28-0 |
| P009-002 | .alpha..alpha..alpha.-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-trithanol | 25254-50-6 |
| P009-003 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | 2634-33-5 |
| P009-004 | 1,3-bis(hydroxymethyl)urea | 140-95-4 |
| P009-005 | 1,3-didecyl-2-methyl-1H-imidazolium chloride | 70862-65-6 |
| P009-006 | 1-[1,3-bis(hydroxymethyl)-2,5-dioximidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea; Diazolidinylurea | 78491-02-8 |
| P009-007 | 2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-trivyl)triethanol | 4719-04-4 |
| P009-008 | 2,2-Dibromo-2-cyanoacetamide (DBNPA) | 10222-01-2 |
| P009-009 | 2,2'-dithiobis[N-methylbenzamide] | 2527-58-4 |
| P009-010 | 2,4-dichlorobenzyl alcohol | 1777-82-8 |
| P009-011 | 2-bromo-1-(4-hydroxyphenyl)ethan-1-one | 2491-38-5 |
| P009-012 | 2-Bromo-2-(bromomethyl)pentanedinitrile | 35691-65-7 |
| P009-013 | 2-Chloroacetamide | 79-07-2 |
| P009-014 | 2-methyl-4-thiazoline-3-ketone; 2-methyl-2H-isothiazol-3-one; MIT; Methylisothiazolinone | 2682-20-4 |
| P009-015 | 2-Phenoxyethanol | 122-99-6 |
| P009-016 | 3(2H)-isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone | 55965-84-9 |
| P009-017 | 4,5-dichloro-3H-1,2-dithiol-3-one | 1192-52-5 |
| P009-018 | 5-Chloro-2-(4-chlorophenoxy)-phenol (DCPP) | 3380-30-1 |
| P009-019 | 5-chloro-2-methyl-4-thiazoline-3-ketone | 26172-55-4 |
| P009-020 | Alpha-cypermethrin | 67375-30-8 |
| P009-021 | Aluminium phosphide; Aluminium phosphide releasing phosphine (under BPR) | 20859-73-8 |
| P009-022 | Amines, n-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid | 139734-65-9 |
| P009-023 | Ammonium bromide | 12124-97-9 |
| P009-024 | Benzalkonium chloride; Quaternary ammonium compounds, alkylbenzyl dimethyl chlorides | 8001-54-5 |
| P009-025 | Benzododecinium chloride | 139-07-1 |
| P009-026 | Benzo[thiazole-2-thiol; 2-Mercaptobenzo[thiazole] | 149-30-4 |
| P009-027 | Benzoxonium chloride | 19379-90-9 |
| P009-028 | Benzyl dimethyl(octadecyl)ammonium chloride | 122-19-0 |
| P009-029 | Benzyl dimethylethylammonium chloride | 37139-99-4 |
| P009-030 | Benzyl dodecyl dimethyl ammonium bromide | 7281-04-1 |
| P009-031 | (benzyloxy)methanol | 14548-60-8 |
| P009-032 | Bis(2-sulfidopyridin-1-olato)copper; bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper | 14915-37-8 |
| P009-033 | Bis(tributyltin) oxide; 1,1,1,3,3,3-Hexabutyl distannoxane; Tributyltin oxide (TBTO) | 56-35-9 |
| P009-034 | Bis(trichloromethyl) sulphone | 3064-70-8 |
| P009-035 | Boric acid | 11113-50-1 |
| P009-036 | Boric acid crude natural | 10043-35-3 |
| P009-037 | Bromochloro-5,5-dimethylimidazolidine-2,4-dione | 32718-18-6 |
| P009-038 | Bronopol, 2-bromo-2-nitropropane-1,3-diol | 52-51-7 |
| P009-039 | C8-18alkylbis(2-hydroxyethyl)ammonium bis(2-ethylhexyl)phosphate | 68132-19-4 |
| P009-040 | Calcium dihexa-2,4-dienoate | 7492-55-9 |
| P009-041 | Captan; 1,2,3,6-tetrahydro-N-(trichloromethylthio)phthalimide | 133-06-2 |
| P009-042 | Cetalkonium chloride | 122-18-9 |
| P009-043 | Cetylpyridinium chloride | 123-03-5 |
| P009-044 | Chlorfenapyr; 4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile | 122453-73-0 |
| P009-045 | Chlorothalonil; Tetrachloroisophthalonitrile | 1897-45-6 |
| P009-046 | Chlorotoluron; 3-(3-chloro-p-tolyl)-1,1-dimethylurea | 15545-48-9 |
| P009-047 | Chromium (VI) trioxide; Trioxochromium | 1333-82-0 |

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| P009-048 | Cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine | 67564-91-4 |
| P009-049 | Copolymer of 2-propenal and propane-1,2-diol | 191546-07-3 |
| P009-050 | Copper sulphate | 7758-98-7 |
| P009-051 | Copper sulphate pentahydrate | 7758-99-8 |
| P009-052 | Cu-HDO; Bis(N-cyclohexyl-diazonium-dioxy)-copper; Bis[1-cyclohexyl-1,2-di(hydroxy-.kappa.O)diazoniumato(2-)]-copper | 312600-89-8 |
| P009-053 | Cybutryne; N'-tert-butyl-N-cyclopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine | 28159-98-0 |
| P009-054 | Cyclohexylhydroxydiazene 1-oxide, potassium salt | 66603-10-9 |
| P009-055 | Cyfluthrin; beta-cyfluthrin; a-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | 68359-37-5 |
| P009-056 | Dazomet; Tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione | 533-74-4 |
| P009-057 | Decyldimethyloctylammonium chloride | 32426-11-2 |
| P009-058 | Deltamethrin; (S)-a-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate | 52918-63-5 |
| P009-059 | Diarsenic pentaoxide; Arsenic pentoxide; Arsenic oxide | 1303-28-2 |
| P009-060 | Dichlorofluorid; N-[(Dichlorofluoromethyl)thio]-N',N'-dimethyl-N-phenylsulfamide | 1085-98-9 |
| P009-061 | Dichlorophene; dichlorophen | 97-23-4 |
| P009-062 | Dicopper oxide | 1317-39-1 |
| P009-063 | Didecyldimethylammonium bromide | 2390-68-3 |
| P009-064 | Didecyldimethylammonium chloride (DDAC) | 7173-51-5 |
| P009-065 | Didecylmethylpoly(oxyethyl)ammonium propionate; Poly(oxy-1,2-ethanediyl), .alpha.-[2-(didecylmethylammonio)ethyl]-.omega.-hydroxy-, propanoate (salt) | 94667-33-1 |
| P009-066 | Dimethyldioctylammonium chloride | 5538-94-3 |
| P009-067 | Dimethylfumarate | 624-49-7 |
| P009-068 | Diphenoxarsin-10-yloxid | 58-36-6 |
| P009-069 | Dipotassium disulphite | 16731-55-8 |
| P009-070 | Dipyrithione | 3696-28-4 |
| P009-071 | Disodium cyanodithiocarbamate | 138-93-2 |
| P009-072 | Disodium disulphite; Disodium disulfite | 7681-57-4 |
| P009-073 | Disodium octaborate tetrahydrate; Boron sodium oxide (B8Na2O13), tetrahydrate | 12280-03-4 |
| P009-074 | Disodium tetraborate, anhydrous | 1330-43-4 |
| P009-075 | Disodium tetraborate, decahydrate | 1303-96-4 |
| P009-076 | Disodium tetraborate, pentahydrate | 12179-04-3 |
| P009-077 | Dodecylguanidine monohydrochloride | 13590-97-1 |
| P009-078 | DOWICIL* 150 PRESERVATIVE; DOWICIL* 200 PRESERVATIVE | 51229-78-8 |
| P009-079 | Esfenvalerate; (S)-a-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate | 66230-04-4 |
| P009-080 | (ethylenedioxy)dimethanol; 1,6-Dihydroxy-2,5-dioxihexane | 3586-55-8 |
| P009-081 | Fenitrothion; O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate | 122-14-5 |
| P009-082 | Fipronil; 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile | 120068-37-3 |
| P009-083 | Fluometuron | 2164-17-2 |
| P009-084 | Formaldehyd | 50-00-0 |
| P009-085 | Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial | 111-30-8 |
| P009-086 | Guazatine triacetate | 115044-19-4 |
| P009-087 | Hexa-2,4-dienoic acid; Sorbic acid | 110-44-1 |
| P009-088 | Hexaboron dazine undecaoxide | 12767-90-7 |
| P009-089 | Hexafluorosilicic acid | 16961-83-4 |
| P009-090 | Homopolymer of 2-tert-butylaminoethyl methacrylate (EINECS 223-228-4) | 26716-20-1 |
| P009-091 | Hydroxyl-2-pyridone | 822-89-9 |
| P009-092 | Imazalil; 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole | 35554-44-0 |
| P009-093 | Iodine (I) | 7553-56-2 |
| P009-094 | Isoproturon; 3-(4-Isopropylphenyl)-1,1-dimethylurea | 34123-59-6 |
| P009-095 | L-(+)-lactic acid | 79-33-4 |
| P009-096 | Lignin | 9005-53-2 |
| P009-097 | Magnesium phosphide; Trimagnesium diphosphide | 12057-74-8 |
| P009-098 | Margosa ext. | 84696-25-3 |
| P009-099 | Metam potassium; Potassium methylidithiocarbamate | 137-41-7 |
| P009-100 | Methenamine 3-chloroallylchloride | 4080-31-3 |
| P009-101 | Miristalkonium chloride | 139-08-2 |
| P009-102 | N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 2372-82-9 |
| P009-103 | N,N,N',N'-Tetramethylethylenediaminebis(2-chloroethyl)ether copolymer | 31075-24-8 |
| P009-104 | N,N'-methylenebismorpholine (MBM) | 5625-90-1 |
| P009-105 | Nabam; Disodium ethylenebis(N,N'-dithiocarbamate) | 142-59-6 |
| P009-106 | Naphthenic acids, copper salts | 1338-02-9 |
| P009-107 | N-Didecyl-N-dipolyethoxyammonium borate; Didecylpolyoxethylammonium borate | 214710-34-6 |
| P009-108 | Oligo(2-(2-ethoxy)ethoxyethylguanidinium chloride) | 374572-91-5 |
| P009-109 | Oxine-copper | 10380-28-6 |

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| P009-110 | Permethrin: m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate | 52645-53-1 |
| P009-111 | Poly(hexamethylendiamine guanidinium chloride) | 57028-96-3 |
| P009-112 | Poly(hexamethylenebicyanoquuanide-hexamethylenediamine) Hydrochloride | 27083-27-8 |
| P009-113 | Poly(hexamethylenebiquanide)hydrochloride | 32289-58-0 |
| P009-114 | Polyvinylpyrrolidone iodine | 25655-41-8 |
| P009-115 | Potassium (E,E)-hexa-2,4-dienoate | 24634-61-5 |
| P009-116 | Potassium 2-biphenylate | 13707-65-8 |
| P009-117 | Potassium sulphite | 10117-38-1 |
| P009-118 | Prometryn | 7287-19-6 |
| P009-119 | Quaternary ammonium compounds (benzylalkyldimethyl (alkyl from C8-C22, saturated and unsaturated, tallow alkyl, coco alkyl, and soya alkyl) chlorides, bromides or hydroxides)/BKC | NA |
| P009-120 | Quaternary ammonium compounds, [2-[[2-(2-carboxyethyl)(2-hydroxyethyl)amino]ethyl]amino]-2-oxoethyl]coco alkyldimethyl, hydroxides, inner salts | 100085-64-1 |
| P009-121 | Quaternary ammonium compounds, benzyl-C10-16-alkyldimethyl, chlorides | 68989-00-4 |
| P009-122 | Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides | 85409-22-9 |
| P009-123 | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) dimethylbenzyl ammonium chloride; C12-16-ADBAC | 68424-85-1 |
| P009-124 | Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 68391-01-5 |
| P009-125 | Quaternary ammonium compounds, benzyl-C8-16-alkyldimethyl, chlorides | 68424-84-0 |
| P009-126 | Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, bromides | 91080-29-4 |
| P009-127 | Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | 63449-41-2 |
| P009-128 | Quaternary ammonium compounds, benzylcoco alkyldimethyl, chlorides | 61789-71-7 |
| P009-129 | Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides | 61789-80-8 |
| P009-130 | Quaternary ammonium compounds, C12-14-alkyl(ethylphenyl)methyl]dimethyl, chlorides | 85409-23-0 |
| P009-131 | Quaternary ammonium compounds, di-C6-12-alkyldimethyl, chlorides | 68391-06-0 |
| P009-132 | Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides | 68424-95-3 |
| P009-133 | Quaternary ammonium compounds, di-C8-18-alkyldimethyl, chlorides | 73398-64-8 |
| P009-134 | Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | 61789-77-3 |
| P009-135 | Quaternary ammonium iodides | 308074-50-2 |
| P009-136 | Bethoxazin/3-benzob[thien-2-yl]-5,6-dihydro-1,4,2-oxathiazine 4-oxide | 163269-30-5 |
| P009-137 | Silver-zinc-aluminium-boronphosphate glass; Glass oxide, silver- and zinc-containing | 398477-47-9 |
| P009-138 | Sodium 2,4,6-trichlorophenolate | 3784-03-0 |
| P009-139 | Sodium bromide | 7647-15-6 |
| P009-140 | Sodium dichromate anhydrous | 10588-01-9 |
| P009-141 | Sodium dichromate dihydrate | 7789-12-0 |
| P009-142 | Sodium hydrogen 2,2-methylenebis[4-chlorophenolate] | 10187-52-7 |
| P009-143 | Sodium hydrogensulphite; Sodium bisulphite | 7631-90-5 |
| P009-144 | Sodium hydroxymethylamino acetate | 70161-44-3 |
| P009-145 | Sodium p-chloro-m-cresolate | 15733-22-9 |
| P009-146 | Sodium pentachlorophenolate; Pentachlorophenol, sodium salt | 131-52-2 |
| P009-147 | Sodium sulphite | 7757-83-7 |
| P009-148 | Symclosene; 1,3,5-Trichloro-1,3,5-triazinane-2,4,6-trione | 87-90-1 |
| P009-149 | TCMTB; (benzothiazol-2-ylthio)methyl thiocyanate | 21564-17-0 |
| P009-150 | Tebuconazole; 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-yl methyl)pentan-3-ol | 107534-96-3 |
| P009-151 | Tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5-(1H,3H)-dione | 5395-50-6 |
| P009-152 | Tetrakis(hydroxymethyl)phosphonium sulphate(2:1) | 55566-30-8 |
| P009-153 | Thiamethoxam | 153719-23-4 |
| P009-154 | Thiram; Tetramethylthiuram disulphide | 137-26-8 |
| P009-155 | Tolnafate | 2398-96-1 |
| P009-156 | Tosylchloramide sodium | 127-65-1 |
| P009-157 | Tributyltetradecylphosphonium chloride | 81741-28-8 |
| P009-158 | Tributyltin naphthenate; Stannane, tributyl-, mono(naphthenoxyloxy) derivs. | 85409-17-2 |
| P009-159 | Triclosan; 2,4,4-Trichloro-2-hydroxy diphenyl ether; 5-Chloro-2-(2,4-dichlorophenoxy)phenol | 3380-34-5 |
| P009-160 | Troclosene sodium; Sodium dichloroisocyanurate dihydrate | 2893-78-9 |
| P009-161 | Troclosene sodium; Sodium dichloroisocyanurate dihydrate | 51580-86-0 |
| P009-162 | Zeta-cypermethrin | 52315-07-8 |
| P009-163 | Zinc oxide; C.I. 77947 | 1314-13-2 |
| P009-164 | Zinc sulphide | 1314-98-3 |
| P009-165 | Ziram | 137-30-4 |

P011 Attached table: Cadmium and its compounds, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|--------------------------|
| P011-001 | Antimony, compound with cadmium (2:3) | 12014-29-8 |
| P011-002 | Boric acid, cadmium salt | 51222-60-7 |
| P011-003 | C.I. Pigment Orange 20 (Cadmium sulfoselenide orange) | 12656-57-4 |
| P011-004 | C.I. Pigment Red 108 Cadmium sulfoselenide red | 58339-34-7 |
| P011-005 | Cadmate(2-), tetrakis(cyano-C)-, dipotassium, (T-4)- | 14402-75-6 |
| P011-006 | Cadmium | 7440-43-9 |
| P011-007 | Cadmium acetate | 543-90-8 |
| P011-008 | Cadmium acrylate | 15743-19-8 |
| P011-009 | Cadmium arsenide (Cd3As2) | 12006-15-4 |
| P011-010 | Cadmium bis(2-ethylhexanoate) | 2420-98-6 |
| P011-011 | Cadmium bromide | 7789-42-6 |
| P011-012 | Cadmium bromide, tetrahydrate | 13464-92-1 |
| P011-013 | Cadmium carbonate | 513-78-0 |
| P011-014 | Cadmium chloride | 10108-64-2 |
| P011-015 | Cadmium chloride phosphate (Cd5Cl(PO4)3) | 12185-64-7 |
| P011-016 | Cadmium chloride phosphate (Cd5Cl(PO4)3), manganese-doped | 100402-53-7 |
| P011-017 | Cadmium chloride, hydrate (2:5) | 7790-78-5 |
| P011-018 | Cadmium chromate | 14312-00-6 |
| P011-019 | Cadmium cyanide (Cd(CN)2) | 542-83-6 |
| P011-020 | Cadmium diicosanoate | 14923-81-0 |
| P011-021 | Cadmium dinitrite | 7790-83-2 |
| P011-022 | Cadmium diricinoleate | 13832-25-2 |
| P011-023 | Cadmium fluoborate | 14486-19-2 |
| P011-024 | Cadmium fluoride (CdF2) | 7790-79-6 |
| P011-025 | Cadmium hexafluorosilicate(2-) | 17010-21-8 |
| P011-026 | Cadmium hydrogen phosphate | 14067-62-0 |
| P011-027 | Cadmium hydroxide (Cd(OH)2) | 21041-95-2 |
| P011-028 | Cadmium iodate | 7790-81-0 |
| P011-029 | Cadmium iodide | 7790-80-9 |
| P011-030 | Cadmium Litophone Yellow | 90604-90-3 |
| P011-031 | Cadmium Mercury Sulfide | 1345-09-1 |
| P011-032 | Cadmium mercury telluride ((Cd,Hg)Te) | 29870-72-2 |
| P011-033 | Cadmium molybdenum oxide (CdMoO4) | 13972-68-4 |
| P011-034 | Cadmium niobium oxide (Cd2Nb2O7) | 12187-14-3 |
| P011-035 | Cadmium nitrate (Nitric acid cadmium salt tetrahydrate (Cd · 2NO3 · 4H2O)) | 10022-68-1 |
| P011-036 | Cadmium nitrate (Nitric acid cadmium salt (2:1) (Cd · 2NO3)) | 10325-94-7 |
| P011-037 | Cadmium oxide | 1306-19-0 |
| P011-038 | Cadmium oxide (CdO), solid solution with calcium oxide and titanium oxide (TiO2), praseodymium-doped | 101356-99-4 |
| P011-039 | Cadmium oxide (CdO), solid solution with magnesium oxide, tungsten oxide (WO3) and zinc oxide | 102110-30-5 |
| P011-040 | Cadmium peroxide (Cd(O2)) | 12139-22-9 |
| P011-041 | Cadmium phosphide (Cd3P2) | 12014-28-7 |
| P011-042 | Cadmium propionate | 16986-83-7 |
| P011-043 | Cadmium selenide (CdSe) | 1306-24-7 |
| P011-044 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped | 101357-00-0 |
| P011-045 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped | 101357-01-1 |
| P011-046 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped | 101357-02-2 |
| P011-047 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped | 101357-03-3 |
| P011-048 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped | 101357-04-4 |
| P011-049 | Cadmium selenide sulfide (Cd(Se,S)) | 12626-36-7 |
| P011-050 | Cadmium selenide sulfide (Cd2SeS) | 12214-12-9 |
| P011-051 | Cadmium selenide sulfide (CdSe0.53S0.47) | 71243-75-9 |
| P011-052 | Cadmium selenide sulfide, (Cd2SeS) | 12213-70-6 |
| P011-053 | Cadmium selenide sulphide | 11112-63-3 |
| P011-054 | Cadmium stearate | 2223-93-0 |
| P011-055 | Cadmium succinate | 141-00-4 |
| P011-056 | Cadmium sulfate | 10124-36-4 31119-53-6 |
| P011-057 | Cadmium sulfate, hydrate | 7790-84-3 |
| P011-058 | Cadmium sulfide | 1306-23-6 |
| P011-059 | Cadmium sulphite | 13477-23-1 |
| P011-060 | Cadmium tantalum oxide (CdTa2O6) | 12292-07-8 |
| P011-061 | Cadmium telluride (CdTe) | 1306-25-8 |
| P011-062 | Cadmium titanium oxide (CdTiO3) | 12014-14-1 |
| P011-063 | Cadmium tungsten oxide (CdWO4) | 7790-85-4 |
| P011-064 | Cadmium vanadium oxide (CdV2O6) | 16056-72-7 |
| P011-065 | Cadmium Zinc litophone Yellow | 90604-89-0 |
| P011-066 | Cadmium zinc sulfide | 11129-14-9 |
| P011-067 | Cadmium zinc sulfide ((Cd,Zn)S) | 12442-27-2 |
| P011-068 | Cadmium Zinc Sulfide Yellow | 8048-07-5 |
| P011-069 | Cadmium zirconium oxide (CdZrO3) | 12139-23-0 |
| P011-070 | cadmium(+2) cation diformate | 4464-23-7 |

| | | |
|----------|--|-------------|
| P011-071 | Cadmium-barium laurate | 15337-60-7 |
| P011-072 | Cadmiumbis(diethylidithiocarbamat) | 14239-68-0 |
| P011-073 | Carbonic acid, cadmium salt | 93820-02-1 |
| P011-074 | Diboron trcadmium hexaoxide | 13701-66-1 |
| P011-075 | Dicadmium hexakis(cyano-C)ferrate(4-) | 13755-33-4 |
| P011-076 | Diphosphoric acid, barium cadmium salt | 37131-86-5 |
| P011-077 | Diphosphoric acid, cadmium salt | 19262-93-2 |
| P011-078 | Diphosphoric acid, cadmium salt (1:2) | 15600-62-1 |
| P011-079 | Dipotassium tetrachlorocadmiate(2-) | 20648-91-3 |
| P011-080 | Nonanoic acid, branched, cadmium salt | 93686-40-9 |
| P011-081 | Phosphoric acid, ammonium cadmium salt (1:1:1) | 14520-70-8 |
| P011-082 | Phosphoric acid, cadmium salt | 13847-17-1 |
| P011-083 | Phosphoric acid, cadmium salt (2:3) | 13477-17-3 |
| P011-084 | Selenic acid, cadmium salt (1:1) | 13814-62-5 |
| P011-085 | Selenious acid, cadmium salt (1:1) | 13814-59-0 |
| P011-086 | Silicic acid (H ₂ SiO ₃), cadmium salt (1:1) | 13477-19-5 |
| P011-087 | Silicic acid, zirconium salt, cadmium pigment-encapsulated | 102184-95-2 |
| P011-088 | Sulfamic acid, cadmium salt (2:1) | 14017-36-8 |
| P011-089 | Telluric acid (H ₂ TeO ₃), cadmium salt (1:1) | 15851-44-2 |
| P011-090 | Telluric acid (H ₂ TeO ₄), cadmium salt (1:1) | 15852-14-9 |
| P011-091 | Tetradecanoic acid, cadmium salt | 10196-67-5 |

P012 Attached table: Chlorinated hydrocarbons, selected

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|----------|
| P012-001 | 1,1,1-Trichloroethane (Ethane, 1,1,1-trichloro-) | 71-55-6 |
| P012-002 | 1,1,1,2-Tetrachloroethane | 630-20-6 |
| P012-003 | 1,1,2-Trichloroethane | 79-00-5 |
| P012-004 | Dichloromethane | 75-09-2 |
| P012-005 | Trichloroethylene | 79-01-6 |

P013 Attached table: Chlorinated or brominated dibenzo-p-dioxins or dibenzofurans

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|------------|
| P013-001 | 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 67562-39-4 |
| P013-002 | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 35822-46-9 |
| P013-003 | 1,2,3,4,7,8,9-Hexachlorodibenzofuran | 55673-89-7 |
| P013-004 | 1,2,3,4,7,8-Hexachloro dibenzofuran | 70648-26-9 |
| P013-005 | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 39227-28-6 |
| P013-006 | 1,2,3,6,7,8-Hexachloro dibenzofuran | 57117-44-9 |
| P013-007 | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 57653-85-7 |
| P013-008 | 1,2,3,7,8,9-Hexachloro dibenzofuran | 72918-21-9 |
| P013-009 | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 19408-74-3 |
| P013-010 | 1,2,3,7,8-Pentachloro dibenzofuran | 57117-41-6 |
| P013-011 | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 40321-76-4 |
| P013-012 | 2,3,4,6,7,8-Hexachloro dibenzofurans | 60851-34-5 |
| P013-013 | 2,3,4,7,8-Pentachloro dibenzofurans | 57117-31-4 |
| P013-014 | 2,3,7,8-Tetrachloro dibenzofurans | 51207-31-9 |
| P013-015 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | 1746-01-6 |
| P013-016 | 2,7-Dichlorodibenzo-p-dioxin | 33857-26-0 |
| P013-017 | Hexachlorodibenzodioxin | 34465-46-8 |
| P013-018 | Octachlorodibenzofuran | 39001-02-0 |
| P013-019 | Octachlorodibenzo-p-dioxin | 3268-87-9 |

P014 Attached table: Chlorinated Paraffines, Short and Medium Chain Length (SCCP, MCCP), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|--|--|------------|
| SHORT CHAIN (SCCP), by definition: Chloroparaffins, unbranched, C _x H _(2x+y+2) Cl _y , where x = 10-13 and y = 1-13 | | |
| P014-001 | Alkanes, C10-13, chloro | 85535-84-8 |
| P014-002 | Alkanes, C12-13, chloro | 71011-12-6 |
| MEDIUM CHAIN (MCCP), by definition: Chloroparaffins, unbranched, C _x H _(2x+y+2) Cl _y , where x = 14-17 and y = 1-17 | | |
| P014-003 | Alkanes, C14-17, chloro | 85535-85-9 |
| OTHER: may or may not be short or medium chain. | | |
| P014-004 | Alkanes, C10-21, chloro | 84082-38-2 |
| P014-005 | Alkanes, chloro; chloroparaffins | 61788-76-9 |
| P014-006 | paraffin chlorinated; CHLOROWAX40(CCRIS4770) | 51990-12-6 |
| P014-007 | Paraffin waxes, chloro | 63449-39-8 |
| P014-008 | Chlorinated n-paraffins (C6-18) | 68920-70-7 |
| P014-009 | Alkane, C10-14-, Chloro- | 85681-73-8 |
| P014-010 | Alkane, C12-14-, Chloro- | 85536-22-7 |
| P014-011 | Alkane, C16-27-, Chloro- | 84776-07-8 |
| P014-012 | Alkane, C16-35-, Chloro- | 85049-26-9 |
| P014-013 | Alkene, C12-24-, Chloro- | 68527-02-6 |

P017 Attached table: Chromium(VI)-salts, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|------------|
| P017-001 | Ammonium bichromate | 7789-09-5 |
| P017-002 | Ammonium chromate | 7788-98-9 |
| P017-003 | Barium chromate | 10294-40-3 |
| P017-004 | Cadmium chromate | 14312-00-6 |
| P017-005 | C.I. Pigment Orange 21 | 1344-38-3 |
| P017-006 | Calcium chromate | 13765-19-0 |
| P017-007 | Chromic acid, calcium salt, (Calcium dichromate) | 14307-33-6 |
| P017-008 | Cesium chromate | 13454-78-9 |
| P017-009 | Chromate(1-), chlorotrioxo-, potassium, (T-4) | 16037-50-6 |
| P017-010 | Chromic acid | 7738-94-5 |
| P017-011 | Chromic acid (H ₂ Cr ₂ O ₇) | 13530-68-2 |

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|----------|---|-------------|
| P017-012 | Chromic acid (H ₂ Cr ₂ O ₇), nickel(2+) salt (1:1) | 15586-38-6 |
| P017-013 | Chromic acid (H ₂ CrO ₄), lanthanum(3+) salt (3:2) | 16565-94-9 |
| P017-014 | Chromic acid (H ₂ CrO ₄), magnesium salt (1:1) | 13423-61-5 |
| P017-015 | Chromic acid, ammonium salt | 14445-91-1 |
| P017-016 | Chromic acid, barium potassium salt | 27133-66-0 |
| P017-017 | Chromic acid, potassium zinc salt | 41189-36-0 |
| P017-018 | Chromium (VI) | 18540-29-9 |
| P017-019 | Chromium (VI) chloride | 14986-48-2 |
| P017-020 | Chromium lead oxide | 11119-70-3 |
| P017-021 | Chromium hydroxide oxide silicate | 68475-49-0 |
| P017-022 | Chromium trioxide (CrO ₃) | 1333-82-0 |
| P017-023 | Chromyl chloride | 14977-61-8 |
| P017-024 | Cobalt chromate (Chromic acid (H ₂ CrO ₄), cobalt(2+) salt (1:1)) | 13455-25-9 |
| P017-025 | Copper chromate | 13548-42-0 |
| P017-026 | Copper dichromate | 13675-47-3 |
| P017-027 | Dilead chromate dihydroxide | 12017-86-6 |
| P017-028 | Dithallium dichromate | 13453-35-5 |
| P017-029 | Lead chromate | 7758-97-6 |
| P017-030 | Lead chromate oxide | 18454-12-1 |
| P017-031 | Lead chromate silicate | 11113-70-5 |
| P017-032 | Lead chromate silicate (Pb ₃ (CrO ₄)(SiO ₄)) | 69011-07-0 |
| P017-033 | Lead chromate sulfate (Pb ₉ (CrO ₄) ₅ (SO ₄) ₄) | 51899-02-6 |
| P017-034 | Lead sulfochromate yellow(C.I. Pigment Yellow 34) | 1344-37-2 |
| P017-035 | Lithium chromate | 14307-35-8 |
| P017-036 | Magnesium dichromate | 14104-85-9 |
| P017-037 | Mercury dichromate | 7789-10-8 |
| P017-038 | Mercury (I) chromate | 13465-34-4 |
| P017-039 | Mercury (II) chromate | 13444-75-2 |
| P017-040 | Molybdate orange (Lead chromate pigment) | 12656-85-8 |
| P017-041 | Nickel chromate | 14721-18-7 |
| P017-042 | Nitric acid, barium salt, reaction products with ammonia, chromic acid (H ₂ CrO ₄) diammonium salt and copper(2+) dinitrate, calcined | 99328-50-4 |
| P017-043 | Nitric acid, copper(2+) salt, reaction products with ammonia, chromic acid (H ₂ CrO ₄) diammonium salt and manganese(2+) dinitrate, kilned | 100402-65-1 |
| P017-044 | Potassium chromate | 7789-00-6 |
| P017-045 | Potassium dichromate | 7778-50-9 |
| P017-046 | Silver chromate | 7784-01-2 |
| P017-047 | Sodium dichromate dihydrate | 7789-12-0 |
| P017-048 | dichromium tris(chromate) | 24613-89-6 |
| P017-049 | Sodium chromate | 7775-11-3 |
| P017-050 | Sodium dichromate | 10588-01-9 |
| P017-051 | Strontium chromate | 7789-06-2 |
| P017-052 | Thallium (I) chromate | 13473-75-1 |
| P017-053 | Zinc chromate | 1328-67-2 |
| P017-054 | Zinc chromate | 13530-65-9 |
| P017-055 | Zinc chromate hydroxide | 15930-94-6 |
| P017-056 | Zinc dichromate | 14018-95-2 |
| P017-057 | Zinc potassium chromate | 11103-86-9 |
| P017-058 | Zinc yellow (Zinc chromate pigment) | 37300-23-5 |
| P017-059 | dihydroxy-dioxo-chromium | 11115-74-5 |
| P017-060 | potassium; dioxido-dioxo-chromium | 12433-50-0 |
| P017-061 | Pentazinc chromate octahydroxide | 49663-84-5 |

P020 Attached table: Diorganotin compound

| NTN No. | Environmentally hazardous substances | CAS-No. |
|-----------------------------------|---|------------|
| Dibutyltin compounds, all members | | |
| P020-001 | 2,2'-((Dibutylstannylene)bis(thio))diethanol | 3026-81-1 |
| P020-002 | 3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-2-methyl-4,7,11-trioxo-, 1-methylethyl ester, (Z,Z)- | 22535-42-8 |
| P020-003 | 3,8,10-Trioxa-9-stannatetradeca-5,12-dien-14-oic acid, 9,9-dibutyl-4,7,11-trioxo-, ethyl ester, (Z,Z)- | 13173-04-1 |
| P020-004 | 5,7,12-Trioxa-6-stannatetracos-2,9-dienoic acid, 6,6-dibutyl-4,8,11-trioxo-, dodecyl ester, (Z,Z)- | 33466-31-8 |
| P020-005 | Acetate, S,S'-bis(octylmercapto-, dibutyltin | 32011-18-0 |
| P020-006 | Bis (acetato) dibutyltin | 17523-06-7 |
| P020-007 | Dibutyl tin | 1002-53-5 |
| P020-008 | Dibutyltinbis(2-ethylhexyl mercaptoacetate) | 10584-98-2 |
| P020-009 | Dibutylbis(octyl maleate)tin | 17036-31-6 |
| P020-010 | Diisooctyl 4,4'-((dibutylstannylene)bis(oxy))bis(4-oxoisocrotonate) | 25168-21-2 |
| P020-011 | Dibutylbis((1-oxoneodecyl)oxy)stannane | 25168-22-3 |
| P020-012 | Dibutylbis(myristoyloxy)stannane | 28660-67-5 |
| P020-013 | Dibutylthioxostannane | 4253-22-9 |
| P020-014 | Dibutylbis((1-oxoisooctadecyl)oxy)stannane | 59963-28-9 |
| P020-015 | Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 |
| P020-016 | Dibutylbis(ethyl 3-oxobutyrato-O ¹ ,O ³)tin | 54581-65-6 |
| P020-017 | Dibutyltin bis(2-ethylhexyl-3-mercaptopropionate) | 53202-61-2 |
| P020-018 | Dibutyltin bis(benzyl maleate) | 7324-74-5 |
| P020-019 | Dibutyltin bis(cyclohexyl maleate) | 5587-52-0 |
| P020-020 | Dibutyltin bis(isooctyl mercaptoacetate) | 25168-24-5 |
| P020-021 | Dibutyltin bis(lauryl β-mercaptoacetate) | 51287-83-3 |
| P020-022 | Dibutyltin bis(octylthioglycolate) | 2781-09-1 |
| P020-023 | Dibutyltin bis(oleyl maleate) | 29881-72-9 |
| P020-024 | Dibutyltin di(isooctyl 3-mercaptopropionate) | 26761-46-6 |
| P020-025 | Dibutyltin diacetate | 1067-33-0 |
| P020-026 | Dibutyltin dibenzoate | 5847-54-1 |

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|---------------------------------|---|-------------|
| P020-027 | Dibutyltin dibutoxide | 3349-36-8 |
| P020-028 | Dibutyltin dichloride | 683-18-1 |
| P020-029 | Dibutyltin dihexanoate | 19704-60-0 |
| P020-030 | Dibutyltin dilaurate | 77-58-7 |
| P020-031 | Dibutyltin dialauryl mercaptide | 1185-81-5 |
| P020-032 | Dibutyltin dimaleate | 10192-92-4 |
| P020-033 | Dibutyl dimethoxystannane | 1067-55-6 |
| P020-034 | Dibutyltin dioctanoate | 4731-77-5 |
| P020-035 | Dibutyltin dioleate | 13323-62-1 |
| P020-036 | Dibutyltin dipalmitate | 13323-63-2 |
| P020-037 | Dibutyltin disalicylate | 14214-24-5 |
| P020-038 | Dibutyltin distearate | 5847-55-2 |
| P020-039 | Dibutyltin hydrogen borate | 75113-37-0 |
| P020-040 | Dibutyltin isooctanoate | 85702-74-5 |
| P020-041 | Dibutyltin linoleate | 85391-79-3 |
| P020-042 | Dibutyltin linolenate | 95873-60-2 |
| P020-043 | Dibutyltin maleate | 78-04-6 |
| P020-044 | Dibutyltin mercaptoacetate | 78-20-6 |
| P020-045 | Dibutyltin mercaptopropionate | 78-06-8 |
| P020-046 | Dibutyltin oxide | 818-08-6 |
| P020-047 | Dibutyltin S,S'-bis(isooctyl mercaptoacetate)Acetic acid, 2,2'-[(dibutylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester) | 25168-24-5 |
| P020-048 | Dibutyltin di(2-ethylhexyl maleate) | 15546-12-0 |
| P020-049 | Dibutyltin bis(C8 to C18 unsatd. fatty acyloxy) derivs. | 85508-00-5 |
| P020-050 | Diisobutyltin oxide | 61947-30-6 |
| P020-051 | Di-n-butyltin bis(methyl maleate) | 15546-11-9 |
| P020-052 | Dibutyltin diisothiocyanate | 15719-34-3 |
| P020-053 | Di-n-butyltin di(monobutyl)maleate | 15546-16-4 |
| P020-054 | Di-n-butyltin di-2-ethylhexanoate | 2781-10-4 |
| P020-055 | Distannathiane, 1,3-dibutyl-1,3-dithioxo- | 15666-29-2 |
| P020-056 | Tin, dibutyl(1,2-ethanediamine-N,N')bis(monoisooctyl 2-butenedioato-O)- | 163206-28-8 |
| P020-057 | Tin, dibutyl[[N-(carboxymethyl)-N-(2-hydroxyethyl) glycinato(2-)]- | 68239-46-3 |
| P020-058 | Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- | 22673-19-4 |
| P020-059 | Tin, dibutylbis(methyl 3-mercaptopropanoato-O,S)- | 32011-19-1 |
| P020-060 | Tin, dibutylbis(N,N-diethylethanamine)difluoro- | 67924-24-7 |
| Diocetyl compounds, all members | | |
| P020-061 | Acetic acid, 2,2'-[(diocetylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester | 26401-97-8 |
| P020-062 | Bis(dodecylthio)diocetylstannane | 22205-30-7 |
| P020-063 | 2-Butenedioic acid, 1,1'-(diocetylstannylene) 4,4'-diethyl ester | 68109-88-6 |
| P020-064 | Di-n-octyltin bis(2-ethylhexyl maleate) | 10039-33-5 |
| P020-065 | Diocetylbis(pentane-2,4-dionato-O,O')tin | 54068-28-9 |
| P020-066 | Diocetylbis(stearoyloxy)stannane | 22205-26-1 |
| P020-067 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannat etradecanoate (DOTE) | 15571-58-1 |
| P020-068 | Diocetyltin bis(isooctyl maleate) | 33568-99-9 |
| P020-069 | Diocetyltin dichloride | 3542-36-7 |
| P020-070 | Diocetyltin dilaurate | 3648-18-8 |
| P020-071 | Diocetyltin maleate | 16091-18-2 |
| P020-072 | Diocetyltin oxide, (Stannane, dioctyloxo-) | 870-08-6 |
| P020-073 | Diocetylindineodecanoate | 68299-15-0 |
| P020-074 | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acyloxy)diocetylstannane | 93925-43-0 |
| P020-075 | Stannane, dioctyl-, bis(coco acyloxy) derivs. | 91648-39-4 |
| P020-076 | Reaction mass of DOTE/MOTE | |
| P020-077 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannat etradecanoate (DOTE) | 15571-58-1 |
| P020-078 | 2-ethylhexyl 10-ethyl-4-[2-[(2-ethylhexyl)oxy]-2-oxoethylthio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (MOTE) | 27107-89-7 |

P023 Attached table: Hexabromocyclododecane (HBCD)

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|-------------|
| P023-001 | hexabromo-Cyclododecane (HBCD) | 25637-99-4 |
| P023-002 | 1,2,5,6,9,10-Hexabromocyclododecane | 3194-55-6 |
| P023-003 | rel-(1R, 2S, 5R, 6S, 9R, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 4736-49-6 |
| P023-004 | rel-(1R, 2S, 5R, 6S, 9S, 10R)-1,2,5,6,9,10 -Hexabromocyclododecane | 65701-47-5 |
| P023-005 | rel-(1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 134237-50-6 |
| P023-006 | rel-(1R, 2S, 5R, 6R, 9R, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 134237-51-7 |
| P023-007 | rel-(1R, 2R, 5R, 6S, 9R, 10R)-1,2,5,6,9,10 -Hexabromocyclododecane | 134237-52-8 |
| P023-008 | (1R, 2R, 5R, 6S, 9S, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 138257-17-7 |
| P023-009 | (1R, 2R, 5R, 6S, 9R, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 138257-18-8 |
| P023-010 | (1R, 2S, 5S, 6R, 9S, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 138257-19-9 |

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| P023-011 | (1R, 2S, 5S, 6S, 9S, 10R)-1,2,5,6,9,10 -Hexabromocyclododecane | 169102-57-2 |
| P023-012 | (1R, 2R, 5S, 6R, 9R, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 678970-15-5 |
| P023-013 | (1R, 2S, 5R, 6S, 9S, 10S)-1,2,5,6,9,10 -Hexabromocyclododecane | 678970-16-6 |
| P023-014 | (1R, 2R, 5R, 6S, 9S, 10R)-1,2,5,6,9,10 -Hexabromocyclododecane | 678970-17-7 |

P026 Attached table: Hydrobromofluorocarbons (HBFC's), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|-------------|
| P026-001 | 1,2-Dibromo-1,1-difluoroethane | 75-82-1 |
| P026-002 | Dibromofluoromethane | 1868-53-7 |
| P026-003 | C2H2F2Br2: 1,1-Dibromo-2,2-difluoroethane (Ethane, 1,1-Dibromo-2,2-difluoro-) | 359-19-3 |
| P026-004 | Bromodifluoromethane | 1511-62-2 |
| P026-005 | 1-Bromo-2-fluoroethane | 762-49-2 |
| P026-006 | 1-Bromo-3-fluoropropane (Propane, 1-Bromo-3-fluoro-) | 352-91-0 |
| P026-007 | 3-Bromo-1,1,1-trifluoropropane (Propane, 3-Bromo-1,1,1-trifluoro-) | 460-32-2 |
| P026-008 | 1,2-Dibromo-1-fluoroethane | 358-97-4 |
| P026-009 | 1,3-Dibromo-1,1-difluoropropane | 460-25-3 |
| P026-010 | 1,2-Dibromo-1,1,2-trifluoroethane | 354-04-1 |
| P026-011 | 2,3-Dibromo-1,1,1-trifluoropropane | 431-21-0 |
| P026-012 | 1,1,1,2-tetrabromo-2-fluoro-ethane | 353-93-5 |
| P026-013 | 1,1,2,2-tetrabromo-1-fluoro-ethane | 306-80-9 |
| P026-014 | 1,1,1-tribromo-2,2-difluoroethane | 7304-53-2 |
| P026-015 | 1,2,2-tribromo-1,1-difluoroethane | 677-34-9 |
| P026-016 | 1,1,2-tribromo-1,2-difluoroethane | 353-97-9 |
| P026-017 | 1,1,2-tribromo-1-fluoroethane | 420-88-2 |
| P026-018 | 1,1,2-tribromo-2-fluoroethane | 598-67-4 |
| P026-019 | C2H3F2Br: Bromo-1,1-difluoroethane (Ethane, 2-bromo-1,1-difluoro-) | 359-07-9 |
| P026-020 | C3HFBr6 | none |
| P026-021 | C3HF2Br5 | none |
| P026-022 | C3HF3Br4 | none |
| P026-023 | C3HF4Br3 | 666-48-8 |
| P026-024 | C3H2FBr5 | none |
| P026-025 | C3H2F2Br4 | 148875-98-3 |
| P026-026 | 1,2,2-Tribromo-3,3,3-trifluoropropane | 421-90-9 |
| P026-027 | 1,3-Dibromo-1,1,3,3-tetrafluoropropane | 460-86-6 |
| P026-028 | 1-bromo-1,1,2,2,2-pentafluoro-propane | 422-01-5 |
| P026-029 | 2-bromo-1,1,1,2,3-pentafluoro-propane | 677-52-1 |
| P026-030 | 1-bromo-1,1,2,2,3-pentafluoro-propane | 677-53-2 |
| P026-031 | 2-bromo-1,1,1,3,3-pentafluoro-propane | 22692-16-6 |
| P026-032 | 1-bromo-1,1,3,3,3-pentafluoro-propane | 460-88-8 |
| P026-033 | 1-bromo-1,2,2,3,3-pentafluoro-propane | 679-94-7 |
| P026-034 | 2-bromo-1,1,2,3,3-pentafluoro-propane | 26391-11-7 |
| P026-035 | Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,S*)-(9CI) | 53692-43-6 |
| P026-036 | Propane, 3-bromo-1,1,1,2,3-pentafluoro-, (R*,R*)-(9CI) | 53692-44-7 |
| P026-037 | C3H3FBr4 | 148875-95-0 |
| P026-038 | 1,2,3-Tribromo-3,3-difluoropropane | 666-25-1 |
| P026-039 | 2-bromo-1,1,3,3-tetrafluoro-propane | 19041-01-1 |
| P026-040 | 2-bromo-1,3,3,3-tetrafluoropropane | 29151-25-5 |
| P026-041 | 3-Bromo-1,1,2,2-tetrafluoropropane | 679-84-5 |
| P026-042 | 1-bromo-1,1,2,2-tetrafluoropropane | 70192-84-6 |
| P026-043 | 1-bromo-1,2,2,3-tetrafluoro-propane | 70192-71-1 |
| P026-044 | 3-bromo-1,1,1,3-tetrafluoropropane | 460-67-3 |
| P026-045 | C3H4FBr3 | 75372-14-4 |
| P026-046 | 1,2-Dibromo-3-fluoropropane | 453-00-9 |
| P026-047 | 1,3-Dibromo-2-fluoropropane | 1786-38-5 |
| P026-048 | 1,3-Dibromo-1-fluoropropane | 51584-26-0 |
| P026-049 | 1,2-Dibromo-1-fluoro-(R*,S*)-propane | 62135-10-8 |
| P026-050 | 1,2-Dibromo-1-fluoro-(R*,R*)-propane | 62135-11-9 |
| P026-051 | 2-bromo-1,1-difluoro-propane | 430-87-5 |
| P026-052 | 1-bromo-1,1-difluoro-propane | 420-89-3 |
| P026-053 | 1-bromo-2,2-difluoro-propane | 420-98-4 |
| P026-054 | 2-bromo-1,3-difluoro-propane | 2195-05-3 |
| P026-055 | 3-bromo-1,1-difluoro-propane | 461-49-4 |
| P026-056 | 1-bromo-2,3-difluoro-propane | 111483-20-6 |
| P026-057 | 1-Bromo-1,1-difluoroethane | 420-47-3 |
| P026-058 | 1-Bromo-1,1,2,3,3,3-hexafluoropropane | 2252-78-0 |
| P026-059 | 2-Bromo-1,1,1-trifluoroethane | 421-06-7 |
| P026-060 | Ethene, 2-bromo-1,1-difluoro- | 359-08-0 |
| P026-061 | Propane, 1-bromo-2-fluoro- | 1871-72-3 |

P027 Attached table: Hydrochlorofluorocarbons (HCFC's), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|-------------|
| P027-001 | 1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b) | 812-04-4 |
| P027-002 | 1,2,2-Trichloro-1,1-difluoroethane | 354-21-2 |
| P027-003 | 1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a) | 354-23-4 |
| P027-004 | 1,2-Dichloro-1,1-difluoroethane | 1649-08-7 |
| P027-005 | 1,2-Dichloro-1,2-difluoroethane | 431-06-1 |
| P027-006 | 2-chloro-1,3-difluoropropane | 102738-79-4 |
| P027-007 | 1,1-Dichloro-1,2,3,3,3-pentafluoropropane | 111512-56-2 |
| P027-008 | Tetrachlorodifluoropropane | 127564-82-3 |
| P027-009 | Trichlorodifluoropropane | 127564-90-3 |
| P027-010 | Trichlorotetrafluoropropane | 127564-91-4 |
| P027-011 | 2,2-Dichloro-1,1,1,3,3-pentafluoropropane | 128903-21-9 |

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|----------|--|-------------|
| P027-012 | Chlorotrifluoroethane | 1330-45-6 |
| P027-013 | Tetrachlorofluoropropane | 134190-49-1 |
| P027-014 | Trichlorofluoropropane | 134190-51-5 |
| P027-015 | 1,1,2,2-Tetrachloro-1-fluoroethane | 134237-32-4 |
| P027-016 | Trichlorofluoroethane | 134237-34-6 |
| P027-017 | Hexachlorofluoropropane | 134237-35-7 |
| P027-018 | Pentachlorodifluoropropane | 134237-36-8 |
| P027-019 | Tetrachlorotrifluoropropane | 134237-37-9 |
| P027-020 | Trichlorotetrafluoropropane | 134237-38-0 |
| P027-021 | Tetrachlorodifluoropropane | 134237-39-1 |
| P027-022 | Trichlorotrifluoropropane | 134237-40-4 |
| P027-023 | Chloropentafluoropropane | 134237-41-5 |
| P027-024 | Trichlorodifluoropropane | 134237-42-6 |
| P027-025 | Dichlorotrifluoropropane | 134237-43-7 |
| P027-026 | Chlorotrifluoropropane | 134237-44-8 |
| P027-027 | Dichlorofluoropropane | 134237-45-9 |
| P027-028 | 1,1-Dichloro-1,2,2,3,3-pentafluoropropane | 13474-88-9 |
| P027-029 | 1,3-Dichloro-1,1,2,3,3-pentafluoropropane | 136013-79-1 |
| P027-030 | 1,1-Dichloro-1,2-difluoroethane | 1842-05-3 |
| P027-031 | Dichlorofluoroethane | 25167-88-8 |
| P027-032 | Dichlorodifluoroethane | 25915-78-0 |
| P027-033 | Hexachlorofluoropropane | 29470-94-8 |
| P027-034 | Tetrachlorotrifluoropropane | 29470-95-9 |
| P027-035 | 2,3-Dichloro-1,1,1-trifluoropropane | 338-75-0 |
| P027-036 | Trichlorodifluoroethane | 41834-16-6 |
| P027-037 | 2-chloro-2-fluoropropane | 420-44-0 |
| P027-038 | 1,2-Dichloro-1,1,2,3,3-pentafluoropropane | 422-44-6 |
| P027-039 | 1,2-Dichloro-1,1,3,3,3-pentafluoropropane | 127564-92-5 |
| P027-040 | 2,3-Dichloro-1,1,1,2,3-pentafluoropropane | 422-48-0 |
| P027-041 | 1,1-Dichloro-2,2,3,3,3-pentafluoropropane | 422-56-0 |
| P027-042 | 1,2-Dichloro-1,1,3,3,3-pentafluoropropane | 431-86-7 |
| P027-043 | 3-Chloro-1,1,1-trifluoropropane | 460-35-5 |
| P027-044 | 3,3-Dichloro-1,1,1-trifluoropropane | 460-69-5 |
| P027-045 | 1-chloro-1,1,3,3,3-pentafluoropropane | 460-92-4 |
| P027-046 | 1,3-Dichloro-1,1,2,2,3-pentafluoropropane | 507-55-1 |
| P027-047 | Trichlorotrifluoropropane | 61623-04-9 |
| P027-048 | 3-Chloro-1,1,2,2-tetrafluoropropane | 679-85-6 |
| P027-049 | 1,1,1-Trichloro-3,3,3-trifluoropropane | 7125-83-9 |
| P027-050 | 1,1-Dichloro-1,2,2-trifluoropropane | 7125-99-7 |
| P027-051 | 1,1-Dichloro-1-fluoropropane | 7799-56-6 |
| P027-052 | 1,1,3-trichloro-1-fluoropropane | 818-99-5 |
| P027-053 | Dichlorodifluoropropane | 134190-52-6 |
| P027-054 | Dichlorofluoropropane | 127404-11-9 |
| P027-055 | Dichlorotetrafluoropropane | 127564-83-4 |
| P027-056 | Dichlorotrifluoropropane | 116890-51-8 |
| P027-057 | 1,2-Dichloro-1-fluoroethane | 430-57-9 |
| P027-058 | 1,2-Dichloro-1-fluoroethylene | 430-58-0 |
| P027-059 | 1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a) | 354-25-6 |
| P027-060 | 1-Chloro-1,1-difluoroethane | 75-68-3 |
| P027-061 | 1-Chloro-1,2-difluoroethylene | 359-04-6 |
| P027-062 | 1-Chloro-1-fluoroethylene | 2317-91-1 |
| P027-063 | 1-Chloro-2-fluoroethylene | 460-16-2 |
| P027-064 | 2-Chloro-1,1-difluoroethylene | 359-10-4 |
| P027-065 | Chlorodifluoroethanes | 25497-29-4 |
| P027-066 | Chlorodifluoromethane | 75-45-6 |
| P027-067 | Chlorofluoromethane | 593-70-4 |
| P027-068 | Chlorotetrafluoroethane | 63938-10-3 |
| P027-069 | Dichlorofluoromethane | 75-43-4 |
| P027-070 | Dichlorotrifluoroethane | 34077-87-7 |
| P027-071 | Ethane, 1,1,1-trichloro-2-fluoro- | 2366-36-1 |
| P027-072 | Ethane, 1,1,2-trichloro-1-fluoro- | 811-95-0 |
| P027-073 | Ethane, 1,1,2-trichloro-2-fluoro- | 359-28-4 |
| P027-074 | Ethane, 1,1-dichloro-1-fluoro- | 1717-00-6 |
| P027-075 | Ethane, 1,2-difluoro-1,1,2-trichloro- | 354-15-4 |
| P027-076 | Ethane, 1-chloro-1,2-difluoro- | 338-64-7 |
| P027-077 | Ethane, 2,2-dichloro-1,1,1-trifluoro- | 306-83-2 |
| P027-078 | Ethane, 2-chloro-1,1,1,2-tetrafluoro- | 2837-89-0 |
| P027-079 | Ethane, chloro-1,1-difluoro- | 55949-44-5 |
| P027-080 | Ethane, monochlorodifluoro- | 338-65-8 |
| P027-081 | Trichlorofluoroethane | 27154-33-2 |
| P027-082 | chlorodifluoropropane | 134190-53-7 |
| P027-083 | chlorofluoroethane | 110587-14-9 |
| P027-084 | chlorofluoropropane | 134190-54-8 |
| P027-085 | chlorohexafluoropropane | 28987-04-4 |
| P027-086 | chloropentafluoropropane | 108662-83-5 |
| P027-087 | chlorotetrafluoropropane | 134190-50-4 |
| P027-088 | chlorotrifluoropropane | 26588-23-8 |
| P027-089 | chloro-1,1,1-trifluoroethane | 75-88-7 |
| P027-090 | Pentachlorodifluoropropane | 116867-32-4 |
| P027-091 | Pentachlorofluoropropane | 134190-48-0 |
| P027-092 | 1-chloro-1,1,2-trifluoroethane | 421-04-5 |
| P027-093 | 1-chloro-1,2,2-trifluoroethane | 431-07-2 |
| P027-094 | 1,1-Dichloro-2-fluoroethane | 430-53-5 |
| P027-095 | 1,1-Dichloro-2,2-difluoroethane | 471-43-2 |
| P027-096 | 1,1,1,2-Tetrachloro-2-fluoroethane | 354-11-0 |
| P027-097 | 1,1,2,2-Tetrachloro-1-fluoroethane | 354-14-3 |

P028 Attached table: Hydrofluorocarbons (HFC's), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-----------|
| P028-001 | 1,1,1,2,2,3,3-Heptafluoropropane | 2252-84-8 |
| P028-002 | 1,1,1,2,3,3-Hexafluoropropane | 431-63-0 |

| | | |
|----------|---|-------------|
| P028-003 | 1,1,1,2-Tetrafluoroethane | 811-97-2 |
| P028-004 | 1,1,2,2-Tetrafluoroethane | 359-35-3 |
| P028-005 | 1,1,2-Trifluoroethane | 430-66-0 |
| P028-006 | 1,1-Difluoroethane | 75-37-6 |
| P028-007 | 1,2-Difluoroethane | 624-72-6 |
| P028-008 | Difluoroethane | 25497-28-3 |
| P028-009 | Difluoromethane | 75-10-5 |
| P028-010 | Ethane,1,1,1-trifluoro- | 420-46-2 |
| P028-011 | Ethane,pentafluoro- | 354-33-6 |
| P028-012 | Ethylfluoride | 353-36-6 |
| P028-013 | Methylfluoride | 593-53-3 |
| P028-014 | 1,1,1,2,2-Pentafluoropropane | 1814-88-6 |
| P028-015 | 1,1,1,3,3-Pentafluoropropane | 460-73-1 |
| P028-016 | 1,1,1,3,3-Pentafluorobutane | 406-58-6 |
| P028-017 | Pentane,1,1,1,2,2,3,4,5,5,5-decafluoro- | 138495-42-8 |
| P028-018 | Propane,1,1,1,2,3,3,3-heptafluoro- | 431-89-0 |
| P028-019 | Propane,1,1,1,3,3,3-hexafluoro- | 690-39-1 |
| P028-020 | Propane,hexafluoro- | 27070-61-7 |
| P028-021 | Trifluoroethane | 27987-06-0 |
| P028-022 | Trifluoromethane | 75-46-7 |
| P028-023 | Vinylidene fluoride | 75-38-7 |

P029 Attached table: Lead and its compounds, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|------------|
| P029-001 | (2-Ethylhexanoato-O)(isodecanoato-O)lead | 94246-92-1 |
| P029-002 | (2-Ethylhexanoato-O)(isononanoato-O)lead | 94246-91-0 |
| P029-003 | (2-Ethylhexanoato-O)(isooctanoato-O)lead | 94246-90-9 |
| P029-004 | (2-Ethylhexanoato-O)(neodecanoato-O)lead | 94246-93-2 |
| P029-005 | (Isodecanoato-O)(isononanoato-O)lead | 94246-86-3 |
| P029-006 | (Isodecanoato-O)(isooctanoato-O)lead | 94246-85-2 |
| P029-007 | (Isodecanoato-O)(neodecanoato-O)lead | 94246-87-4 |
| P029-008 | (Isononanoato-O)(isooctanoato-O)lead | 94246-84-1 |
| P029-009 | (Isononanoato-O)(neodecanoato-O)lead | 94481-58-0 |
| P029-010 | (Neononanoato-O)(neoundecanoato-O)lead | 93894-64-5 |
| P029-011 | .alpha.-D-Glucopyranose, 1-(dihydrogen phosphat e), lead salt | 68901-12-2 |
| P029-012 | [.mu.-(4,6-Dinitrosorcinolato(2-)-O1,O3)]dihydroxy dilead | 84837-22-9 |
| P029-013 | [.mu.-[[5,5'-Azobis[1H-tetrazolato]](2-)]dihydroxydilead | 94015-57-3 |
| P029-014 | 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead salt | 14450-60-3 |
| P029-015 | 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead (2+) salt (2:3) | 512-26-5 |
| P029-016 | 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, lead (2+) salt (2:3), trihydrate | 6107-83-1 |
| P029-017 | 1,2-Benzenedicarboxylic acid, lead(2+) salt | 18608-34-9 |
| P029-018 | 1,2-Benzenedicarboxylic acid, lead(2+) salt, basic | 90193-83-2 |
| P029-019 | 1,3,5,7,9-Pentaoxa-2.lambda.2,4.lambda.2,6.lambda.2,8.lambda.2-tetraplumbacyclotridec-11-ene-10,13-dione, (Z)- | 12275-07-9 |
| P029-020 | 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, lead salt | 54554-36-8 |
| P029-021 | 1,3-Benzenediol, 2,4,6-trinitro-, lead salt/Lead styphnate | 15245-44-0 |
| P029-022 | 1,3-Benzenediol, nitro-, lead(2+) salt (1:1) | 70268-38-1 |
| P029-023 | 2,4-Cyclohexadien-1-one, 3,5,6-trihydroxy-4,6-bis(3-methyl-2-butenyl)-2-(3-methyl-2-oxobutyl)-, lead salt, (R)- | 68901-11-1 |
| P029-024 | 2-Butenedioic acid (E)-, lead salt | 13698-55-0 |
| P029-025 | 2-Butenedioic acid (E)-, lead(2+) salt, basic | 90268-59-0 |
| P029-026 | 2-Butenedioic acid (Z)-, lead(2+) salt, basic | 90268-66-9 |
| P029-027 | 2-Propenoic acid, 2-methyl-, lead salt, basic | 90552-19-5 |
| P029-028 | 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, lead(2+) bis(2-methyl-2-propenoate) and alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) | 68155-47-5 |
| P029-029 | 3-(Triphenylplumbyl)-1H-pyrazole | 51105-45-4 |
| P029-030 | 7,11-Metheno-11H,13H-tetrazolo[1,5-c][1,7,3,5,2,6]dioxadiazadiplobicyclododecine, 5,5,13,13-tetra dehydro-4,5-dihydro-4,8,10,15-tetranitro- | 19651-80-0 |
| P029-031 | 7-Methyloctanoic acid, lead salt | 97952-39-1 |
| P029-032 | 9-Hexadecenoic acid, lead(2+) salt, (Z)-, basic | 90388-15-1 |
| P029-033 | 9-Octadecenoic acid (Z)-, lead salt | 15347-55-4 |
| P029-034 | 9-Octadecenoic acid (Z)-, lead salt, basic | 90459-88-4 |
| P029-035 | Acetic acid, lead salt, basic | 51404-69-4 |
| P029-036 | Acetoxytributylplumbane | 2587-82-8 |
| P029-037 | Acetoxytrimethylplumbane | 5711-19-3 |
| P029-038 | Acetoxytriphenylplumbane | 1162-06-7 |
| P029-039 | Arsenic acid, lead (4+) salt | 53404-12-9 |
| P029-040 | Basic lead sulfite | 12608-25-2 |
| P029-041 | Benzenesulfonic acid, 4-C10-13-sec-alkyl derivitiv es, lead(2+) salts | 84961-75-1 |
| P029-042 | Bis(diethylthiocarbamate-S,S')lead | 17549-30-3 |
| P029-043 | Bis(o-acetoxybenzoato)lead | 62451-77-8 |
| P029-044 | Bis(pentane-2,4-dionato-O,O')lead | 15282-88-9 |
| P029-045 | Bismuth lead ruthenium oxide | 65229-22-3 |
| P029-046 | Bismuth, compound with lead (1:1) | 12048-28-1 |
| P029-047 | Butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, lead (2+) salt (1:1) | 815-84-9 |
| P029-048 | Carbamodithioic acid, ethylphenyl-, lead(2+) salt | 93892-65-0 |
| P029-049 | Carbonic acid, lead(2+) salt | 25510-11-6 |

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|----------|--|-------------|----------|---|------------|
| P029-050 | Castor oil, dehydrated, polymer with rosin, calcium lead zinc salt | 68604-05-7 | P029-135 | Lead azide | 13424-46-9 |
| P029-051 | Chlorotrimethylplumbane | 1520-78-1 | P029-136 | Lead benzoate | 15907-04-7 |
| P029-052 | Chlorotriphenylplumbane | 1153-06-6 | P029-137 | Lead bis(12-hydroxystearate) | 58405-97-3 |
| P029-053 | Lead sulfochromate yellow(C.I. Pigment Yellow 34) | 1344-37-2 | P029-138 | Lead bis(2-ethylhexanoate) | 93840-04-1 |
| P029-054 | Chromium lead oxide | 11119-70-3 | P029-139 | Lead bis(3,5,5-trimethylhexanoate) | 35837-70-8 |
| P029-055 | Chromium lead oxide sulfate, silica-modified | 116565-74-3 | P029-140 | Lead bis(5-oxo-DL-prolinate) | 85392-78-5 |
| P029-056 | C.I. Pigment Orange 21 | 1344-38-3 | P029-141 | Lead bis(5-oxo-L-prolinate) | 85392-77-4 |
| P029-057 | Copper, .beta.-resorcyolate salicylate lead complexes | 68411-07-4 | P029-142 | Lead bis(isononanoate) | 52847-85-5 |
| P029-058 | Cyclohexanebutanoic acid, lead(2+) salt | 62637-99-4 | P029-143 | Lead bis(isoundecanoate) | 93965-29-8 |
| P029-059 | Decanoic acid, branched, lead salts | 90342-24-8 | P029-144 | Lead bis(nonylphenolate) | 72586-00-6 |
| P029-060 | Decanoic acid, lead salt | 20403-42-3 | P029-145 | Lead bis(piperidine-1-carbodithioate) | 41556-46-1 |
| P029-061 | Diacetoxydiphenylplumbane | 6928-68-3 | P029-146 | Lead bis(p-octylphenolate) | 84394-98-9 |
| P029-062 | Diamyldithiocarbamate, lead | 109707-90-6 | P029-147 | Lead bis(tetracosylbenzenesulphonate) | 85865-91-4 |
| P029-063 | Diantimony lead tetroxide | 16450-50-3 | P029-148 | Lead bis(tricosanoate) | 93966-37-1 |
| P029-064 | Dibasic lead stearate | 56189-09-4 | P029-149 | Lead bis[didodecylbenzenesulphonate] | 85865-92-5 |
| P029-065 | Dibismuth dilead tetra ruthenium tridecaoxide | 11116-83-9 | P029-150 | Lead borate | 14720-53-7 |
| P029-066 | Dilead chromate dihydroxide | 12017-86-6 | P029-151 | Lead b-resorcyolate | 41453-50-3 |
| P029-067 | Dilead dirhodium heptaoxide | 37240-96-3 | P029-152 | Lead bromide (PbBr ₂) | 10031-22-8 |
| P029-068 | Diphenyllead dichloride | 2117-69-3 | P029-153 | Lead carbonate | 598-63-0 |
| P029-069 | Diplumbane, hexaethyl- | 2388-00-3 | P029-154 | Lead chloride | 7758-95-4 |
| P029-070 | Diplumbane, hexaphenyl- | 3124-01-4 | P029-155 | Lead chloride (V.A.N.) | 12612-47-4 |
| P029-071 | Docosanoic acid, lead salt | 3249-61-4 | P029-156 | Lead chloride oxide | 12205-72-0 |
| P029-072 | Dodecanoic acid, lead salt, basic | 90342-56-6 | P029-157 | Lead chromate | 7758-97-6 |
| P029-073 | Dodecanoic acid, lead(2+) salt | 15773-55-4 | P029-158 | Lead chromate oxide | 18454-12-1 |
| P029-074 | Fatty acids, C12-18, lead salts | 68131-60-2 | P029-159 | Lead chromate silicate | 11113-70-5 |
| P029-075 | Fatty acids, C14-26, lead salts | 93165-26-5 | P029-160 | Lead chromate silicate (Pb ₃ (CrO ₄)(SiO ₄)) | 69011-07-0 |
| P029-076 | Fatty acids, C16-18, lead salts | 91031-62-8 | P029-161 | Lead chromate sulfate (Pb ₉ (CrO ₄) ₅ (SO ₄) ₄) | 51899-02-6 |
| P029-077 | Fatty acids, C18-24, lead salts | 84776-54-5 | P029-162 | Lead cyanamidate | 20890-10-2 |
| P029-078 | Fatty acids, C4- 20-branched, lead salts | 125328-49-6 | P029-163 | Lead cyanamide | 20837-86-9 |
| P029-079 | Fatty acids, C6- 19-branched, lead salts | 91002-20-9 | P029-164 | Lead cyanamide | 35112-70-0 |
| P029-080 | Fatty acids, C8-10, lead salts | 91031-61-7 | P029-165 | Lead cyanide | 592-05-2 |
| P029-081 | Fatty acids, C8-10-branched, lead salts | 85049-42-9 | P029-166 | Lead dibenzoate | 873-54-1 |
| P029-082 | Fatty acids, C8-10-branched, lead salts, basic | 68409-79-0 | P029-167 | Lead dibromate | 34018-28-5 |
| P029-083 | Fatty acids, C8-12, lead salts | 84776-53-4 | P029-168 | Lead dibutanoate | 65119-94-0 |
| P029-084 | Fatty acids, C8-18 and C18-unsaturated, lead salts | 84776-36-3 | P029-169 | Lead dibutyrate | 819-73-8 |
| P029-085 | Fatty acids, C8-9, lead salts | 91031-60-6 | P029-170 | Lead didocosanoate | 29597-84-0 |
| P029-086 | Fatty acids, C9-11-branched, lead salts | 81412-57-9 | P029-171 | Lead dihexanoate | 15773-53-2 |
| P029-087 | Fatty acids, castor-oil, hydrogenated, lead salts | 91697-36-8 | P029-172 | Lead dilactate | 18917-82-3 |
| P029-088 | Fatty acids, coco, lead salts | 92044-89-8 | P029-173 | Lead dilinoleate | 33627-12-2 |
| P029-089 | Fatty acids, tall-oil, lead manganese salts | 61788-53-2 | P029-174 | Lead dimethylthiocarbamate | 19010-66-3 |
| P029-090 | Fatty acids, tall-oil, lead salts | 61788-54-3 | P029-175 | Lead dimyristate | 32112-52-0 |
| P029-091 | Fatty acids, tallow, reaction products with lead oxide | 94349-78-7 | P029-176 | Lead dipalmitate | 15773-56-5 |
| P029-092 | Flue dust, lead blast furnace | 70514-05-5 | P029-177 | Lead diphosphinate | 10294-58-3 |
| P029-093 | Formic acid, lead salt | 7056-83-9 | P029-178 | Lead dipicrate | 6477-64-1 |
| P029-094 | Gilsonite, polymer with linseed oil, lead salt | 68989-89-9 | P029-179 | Lead dipropionate | 814-70-0 |
| P029-095 | Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, lead(2+) sodiumsalt (1:1:2) | 22904-40-1 | P029-180 | Lead disulphamidate | 13767-78-7 |
| P029-096 | Hafnium lead trioxide | 12029-23-1 | P029-181 | Lead disulphide | 12137-74-5 |
| P029-097 | Hexacosanoic acid, lead salt | 94006-20-9 | P029-182 | Lead diundec-10-enoate | 94232-40-3 |
| P029-098 | Hexadecanoic acid, lead salt, basic | 90388-09-3 | P029-183 | Lead fluoroborate | 13814-96-5 |
| P029-099 | Hexadecanoic acid, lead(2+) salt, basic | 90388-10-6 | P029-184 | Lead fluoride | 7783-46-2 |
| P029-100 | Hexanoic acid, 2-ethyl-, lead(2+) salt | 301-08-6 | P029-185 | Lead fluoride hydroxide | 97889-90-2 |
| P029-101 | Hexanoic acid, 3,5,5-trimethyl-, lead salt | 23621-79-6 | P029-186 | Lead fluorosilicate | 25808-74-6 |
| P029-102 | Hydroxy(neodecanoato-O)lead | 71753-04-3 | P029-187 | Lead formate | 811-54-1 |
| P029-103 | Iron lead oxide (Fe12PbO19) | 12023-90-4 | P029-188 | Lead germanate | 12435-47-1 |
| P029-104 | Isodecanoic acid, lead salt, basic | 90431-14-4 | P029-189 | Lead hexafluorosilicate | 1310-03-8 |
| P029-105 | Isodecanoic acid, lead(2+) salt, basic | 91671-82-8 | P029-190 | Lead hydroxide | 19783-14-3 |
| P029-106 | Isononanoic acid, lead salt | 27253-41-4 | P029-191 | Lead hydroxide | 39345-91-0 |
| P029-107 | Isononanoic acid, lead salt, basic | 90431-21-3 | P029-192 | Lead hydroxide nitrate | 12268-84-7 |
| P029-108 | Isooctanoic acid, lead salt | 64504-12-7 | P029-193 | Lead hydroxysalicylate | 87903-39-7 |
| P029-109 | Isooctanoic acid, lead salt, basic | 90431-26-8 | P029-194 | Lead icosanoate | 94266-32-7 |
| P029-110 | Isooctanoic acid, lead(2+) salt, basic | 91671-83-9 | P029-195 | Lead icosanoate (1:2) | 94266-31-6 |
| P029-111 | Isoundecanoic acid, lead(2+) salt, basic | 91671-84-0 | P029-196 | Lead iodate | 25659-31-8 |
| P029-112 | Lauric acid, lead salt | 15306-30-6 | P029-197 | Lead iodide | 10101-63-0 |
| P029-113 | Leach residues, lead slag | 69029-71-6 | P029-198 | Lead isophthalate | 38787-87-0 |
| P029-114 | Lead | 7439-92-1 | P029-199 | Lead linoleate | 16996-51-3 |
| P029-115 | Lead (II) acetate, trihydrate | 6080-56-4 | P029-200 | Lead malate | 816-68-2 |
| P029-116 | Lead (II) methylthiolate | 35029-96-0 | P029-201 | Lead maleate | 19136-34-6 |
| P029-117 | Lead (IV) acetate | 546-67-8 | P029-202 | Lead methacrylate | 1068-61-7 |
| P029-118 | Lead 12-hydroxyoctadecanoate | 65127-78-8 | P029-203 | Lead methacrylate | 52609-46-8 |
| P029-119 | Lead 2,4-dihydroxybenzoate | 20936-32-7 | P029-204 | Lead molybdate | 10190-55-3 |
| P029-120 | Lead 2-ethylhexoate | 16996-40-0 | P029-205 | Lead monoxide | 1317-36-8 |
| P029-121 | Lead 3-(acetamido)phthalate | 93839-98-6 | P029-206 | Lead myristate | 20403-41-2 |
| P029-122 | Lead 5-nitroterephthalate | 60580-60-1 | P029-207 | Lead naphthalate | 50825-29-1 |
| P029-123 | Lead acetate | 15347-57-6 | P029-208 | Lead naphthenate | 61790-14-5 |
| P029-124 | Lead acetate | 301-04-2 | P029-209 | Lead neobate | 12034-88-7 |
| P029-125 | Lead acrylate | 14466-01-4 | P029-210 | Lead neodecanoate | 27253-28-7 |
| P029-126 | Lead alloy, dross | 69011-59-2 | P029-211 | Lead nitrate | 10099-74-8 |
| P029-127 | Lead alloy, Pb,Sn, dross | 69011-60-5 | P029-212 | Lead nitroresorcinate | 51317-24-9 |
| P029-128 | Lead antimonate | 13510-89-9 | P029-213 | Lead oleate | 1120-46-3 |
| P029-129 | Lead antimonide | 12266-38-5 | P029-214 | Lead oxalate | 814-93-7 |
| P029-130 | Lead arsenate | 3687-31-8 | P029-215 | Lead oxide | 1335-25-7 |
| P029-131 | Lead arsenate | 7784-40-9 | P029-216 | Lead oxide (Pb ₂ O) | 12059-89-1 |
| P029-132 | Lead arsenate (Pb ₃ (AsO ₄) ₂) | 10102-48-4 | P029-217 | Lead oxide (PbO), lead-contg. | 68411-78-9 |
| P029-133 | Lead arsenate, unspecified | 7645-25-2 | P029-218 | Lead oxide (PbO), retort | 69029-53-4 |
| P029-134 | Lead arsenite | 10031-13-7 | P029-219 | Lead oxide phosphonate (Pb ₃ O ₂ (HPO ₃)) | 12141-20-7 |
| | | | P029-220 | Lead oxide phosphonate, hemihydrate | 1344-40-7 |
| | | | P029-221 | Lead oxide sulfate | 12765-51-4 |
| | | | P029-222 | Lead oxide sulfate (Pb ₂ O(SO ₄)) | 12036-76-9 |
| | | | P029-223 | Lead oxide sulfate (Pb ₄ O ₃ (SO ₄)) | 12202-17-4 |
| | | | P029-224 | Lead oxide sulfate (Pb ₅ O ₄ (SO ₄)) | 12065-90-6 |
| | | | P029-225 | Lead palmitate | 19528-55-3 |

Attachment 4-17 (Prohibited substances: Attached table)

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|----------|---|-------------|----------|--|-------------|
| P029-226 | Lead pentadecanoate | 93966-74-6 | P029-308 | Lead, bis(diphenylcarbomethoxy-S,S')-, (T-4)- | 75790-73-7 |
| P029-227 | Lead perchlorate | 13637-76-8 | P029-309 | Lead, bis(octadecanoato)dioxotri- | 12565-18-3 |
| P029-228 | Lead peroxide | 1309-60-0 | P029-310 | Lead, bis(octadecanoato)dioxotri- | 12578-12-0 |
| P029-229 | Lead phosphate | 7446-27-7 | P029-311 | Lead, bullion | 97808-88-3 |
| P029-230 | Lead phthalate | 16183-12-3 | P029-312 | Lead, C3-13-fatty acid naphthenate complexes | 79803-79-5 |
| P029-231 | Lead phthalate | 6838-85-3 | P029-313 | Lead, C4-10-fatty acid naphthenate complexes | 84067-00-5 |
| P029-232 | Lead picrate | 25721-38-4 | P029-314 | Lead, C4-10-fatty acid octanoate complexes | 92200-92-5 |
| P029-233 | Lead propionate | 42558-73-6 | P029-315 | Lead, C5-23-branched carboxylate C4-10-fatty acid complexes | 84066-98-8 |
| P029-234 | Lead pyrophosphate | 13453-66-2 | P029-316 | Lead, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes | 83711-45-9 |
| P029-235 | Lead ruthenium oxide (PbRuO3) | 37194-88-0 | P029-317 | Lead, C5-23-branched carboxylate naphthenate complexes | 83711-46-0 |
| P029-236 | Lead sebacate | 29473-77-6 | P029-318 | Lead, C5-23-branched carboxylate naphthenate octanoate complexes | 83711-47-1 |
| P029-237 | Lead selenate | 7446-15-3 | P029-319 | Lead, C5-23-branched carboxylate octanoate complexes | 84066-99-9 |
| P029-238 | Lead selenide (PbSe) | 12069-00-0 | P029-320 | Lead, C6-19-branched carboxylate naphthenate complexes | 70084-67-2 |
| P029-239 | Lead selenite | 7488-51-9 | P029-321 | Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes | 90431-28-0 |
| P029-240 | Lead silicate | 11120-22-2 | P029-322 | Lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes, overbased | 90431-27-9 |
| P029-241 | Lead silicate | 13566-17-1 | P029-323 | Lead, C9-28-neocarboxylate 2-ethylhexanoate complexes, basic | 125494-56-6 |
| P029-242 | Lead silicate | 22569-74-0 | P029-324 | Lead, decanoate octanoate complexes | 70321-55-0 |
| P029-243 | Lead silicate sulfate | 12687-78-4 | P029-325 | Lead, di- μ -hydroxy(2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)di- | 96471-22-6 |
| P029-244 | Lead silicate sulfate | 67711-86-8 | P029-326 | Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di- | 12403-82-6 |
| P029-245 | Lead stearate | 7428-48-0 | P029-327 | Lead, dross | 69029-52-3 |
| P029-246 | Lead stearate dibasic | 52652-59-2 | P029-328 | Lead, dross, antimony-rich | 69029-45-4 |
| P029-247 | Lead subacetate | 1335-32-6 | P029-329 | Lead, dross, bismuth-rich | 69029-46-5 |
| P029-248 | Lead succinate | 1191-18-0 | P029-330 | Lead, dross, copper-rich | 69227-11-8 |
| P029-249 | Lead sulfate | 15739-80-7 | P029-331 | Lead, dross, vanadium-zinc-containing | 100656-49-3 |
| P029-250 | Lead sulfate | 7446-14-2 | P029-332 | Lead, isodecanoate isononanoate complexes, basic | 90431-36-0 |
| P029-251 | Lead sulfate, tribasic | 12397-06-7 | P029-333 | Lead, isodecanoate isooctanoate complexes, basic | 90431-37-1 |
| P029-252 | Lead sulfide (PbS) | 1314-87-0 | P029-334 | Lead, isodecanoate naphthenate complexes | 90431-38-2 |
| P029-253 | Lead sulfomolybdochromate, silica encapsulated | 116565-73-2 | P029-335 | Lead, isodecanoate naphthenate complexes, basic | 101012-92-4 |
| P029-254 | Lead tantalate | 12065-68-8 | P029-336 | Lead, isodecanoate neodecanoate complexes, basic | 90431-39-3 |
| P029-255 | Lead telluride | 1314-91-6 | P029-337 | Lead, isononanoate isooctanoate complexes, basic | 84929-94-2 |
| P029-256 | Lead tellurite | 13845-35-7 | P029-338 | Lead, isononanoate naphthenate complexes | 84929-97-5 |
| P029-257 | Lead tetrachloride | 13463-30-4 | P029-339 | Lead, isononanoate naphthenate complexes, basic | 90431-40-6 |
| P029-258 | Lead tetracosanoate | 93966-38-2 | P029-340 | Lead, isononanoate neodecanoate complexes, basic | 90431-41-7 |
| P029-259 | Lead tetraoxide | 1314-41-6 | P029-341 | Lead, isooctanoate naphthenate complexes | 68515-80-0 |
| P029-260 | Lead thiocyanate | 592-87-0 | P029-342 | Lead, isooctanoate naphthenate complexes, basic | 90431-42-8 |
| P029-261 | Lead thiosulfate | 13478-50-7 | P029-343 | Lead, isooctanoate neodecanoate complexes | 101013-06-3 |
| P029-262 | Lead tin oxide (PbSnO3) | 12036-31-6 | P029-344 | Lead, isooctanoate neodecanoate complexes, basic | 84929-95-3 |
| P029-263 | Lead titanium oxide (PbTiO3) | 12060-00-3 | P029-345 | Lead, naphthenate neodecanoate complexes | 90431-43-9 |
| P029-264 | Lead titanium zirconium oxide (Pb(Ti,Zr)O3) | 12626-81-2 | P029-346 | Lead, naphthenate neodecanoate complexes, basic | 84929-96-4 |
| P029-265 | Lead trioxide | 1314-27-8 | P029-347 | Lead, neononanoate neodecanoate complexes, basic | 90431-44-0 |
| P029-266 | Lead tungsten oxide | 7759-01-5 | P029-348 | Lead, zinc dross | 94551-60-7 |
| P029-267 | Lead tungsten oxide | 12737-98-3 | P029-349 | Linseed oil, polymer with tung oil, lead salt | 68990-75-0 |
| P029-268 | Lead vanadate | 10099-79-3 | P029-350 | Linseed oil, reaction products with lead oxide (Pb3O4) and mastic | 68152-99-8 |
| P029-269 | Lead zirconate | 12060-01-4 | P029-351 | Methanesulfonic acid, lead(2+) salt | 17570-76-2 |
| P029-270 | Lead(2+) (R)-12-hydroxyoleate | 13094-04-7 | P029-352 | Molybdate orange (Lead chromate pigment) | 12656-85-8 |
| P029-271 | Lead(2+) (Z)-hexadec-9-enoate | 93858-24-3 | P029-353 | Naphthalenesulfonic acid, diisononyl-, lead(2+) salt | 63568-30-9 |
| P029-272 | Lead(2+) 2,4-dinitroresorcinolate | 13406-89-8 | P029-354 | Naphthalenesulfonic acid, dinonyl-, lead(2+) salt | 61867-68-3 |
| P029-273 | Lead(2+) 4-(1,1-dimethylethyl)benzoate | 85292-77-9 | P029-355 | Naphthenic acids, lead(2+) salts | 91078-81-8 |
| P029-274 | Lead(2+) 4,4'-isopropylidenebisphenolate | 93858-23-2 | P029-356 | Naphthenic acids, lead manganese salts | 61788-52-1 |
| P029-275 | Lead(2+) 4,6-dinitro-o-cresolate | 65121-76-8 | P029-357 | Naphthenic acids, lead salts, basic | 92045-67-5 |
| P029-276 | Lead(2+) acrylate | 867-47-0 | P029-358 | Neodecanoic acid, lead salt, basic | 90459-25-9 |
| P029-277 | Lead(2+) decanoate | 15773-52-1 | P029-359 | Neononanoic acid, lead salt, basic | 90459-26-0 |
| P029-278 | Lead(2+) heptadecanoate | 63399-94-0 | P029-360 | Neoundecanoic acid, lead salt, basic | 90459-28-2 |
| P029-279 | Lead(2+) isohexadecanoate | 95892-13-0 | P029-361 | Nitric acid, lead(2+) salt, reaction products with sodium tin oxide | 97953-08-7 |
| P029-280 | Lead(2+) isooctadecanoate | 70727-02-5 | P029-362 | Nitrous acid, lead(2+) salt | 13826-65-8 |
| P029-281 | Lead(2+) neodecanoate | 71684-29-2 | P029-363 | Octadecanoic acid, lead salt, basic | 90459-51-1 |
| P029-282 | Lead(2+) neononanoate | 93894-48-5 | P029-364 | Octadecanoic acid, lead(2+) salt, basic | 90459-52-2 |
| P029-283 | Lead(2+) neoundecanoate | 93894-49-6 | P029-365 | Octadecanoic acid, lead(2+) salt, tribasic | 52080-60-1 |
| P029-284 | Lead(2+) octanoate | 7319-86-0 | P029-366 | Octanoic acid, lead salt | 15696-43-2 |
| P029-285 | Lead(4+) stearate | 7717-46-6 | P029-367 | Orthoboric acid, lead(2+) salt | 35498-15-8 |
| P029-286 | Lead(II) fumarate | 71686-03-8 | P029-368 | Perchloric acid, reaction products with lead oxide (PbO) and triethanolamine | 99749-31-2 |
| P029-287 | Lead(II) isodecanoate | 84852-34-6 | P029-369 | Petrolatum, petroleum, oxidized, lead salt | 67674-14-0 |
| P029-288 | Lead(II) isooctanoate | 93981-67-0 | P029-370 | Phenol, 2-methyldinitro-, lead salt | 50319-14-7 |
| P029-289 | Lead(II) maleate | 17406-54-1 | P029-371 | Phenol, dodecyl-, lead(2+) salt | 68586-21-4 |
| P029-290 | Lead(IV) fluoride | 7783-59-7 | P029-372 | Phenol, tetrapropylene-, lead(2+) salt | 122332-23-4 |
| P029-291 | Lead, (2-methyl-4,6-dinitrophenolato-O1)(nitrate-O)- μ -oxodi-, monohydrate | 79357-62-3 | P029-373 | Phosphonic acid, lead salt | 16038-76-9 |
| P029-292 | Lead, [μ -[1,2-benzenedicarboxylato(2-)-O1:O2]] di- μ -oxotri-, cyclo- | 17976-43-1 | | | |
| P029-293 | Lead, [1,2-benzenedicarboxylato(2-)]dioxotri- | 69011-06-9 | | | |
| P029-294 | Lead, [1,2-benzenedicarboxylato(2-)]oxodi- | 57142-78-6 | | | |
| P029-295 | Lead, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)- | 15187-16-3 | | | |
| P029-296 | Lead, 2-ethylhexanoate isodecanoate complexes, basic | 90431-30-4 | | | |
| P029-297 | Lead, 2-ethylhexanoate isononanoate complexes, basic | 90431-31-5 | | | |
| P029-298 | Lead, 2-ethylhexanoate isooctanoate complexes, basic | 90431-32-6 | | | |
| P029-299 | Lead, 2-ethylhexanoate naphthenate complexes | 90431-33-7 | | | |
| P029-300 | Lead, 2-ethylhexanoate naphthenate complexes, basic | 90431-34-8 | | | |
| P029-301 | Lead, 2-ethylhexanoate neodecanoate complexes, basic | 90431-35-9 | | | |
| P029-302 | Lead, 2-ethylhexanoate tall-oil fatty acids complexes | 68187-37-1 | | | |
| P029-303 | Lead, alkyls, manufacturing wastes | 70513-89-2 | | | |
| P029-304 | Lead, antimonial | 69029-50-1 | | | |
| P029-305 | Lead, antimonial, dross | 69029-51-2 | | | |
| P029-306 | Lead, bis(2-hydroxybenzoato-O1,O2)-, (T-4)- | 15748-73-9 | | | |
| P029-307 | Lead, bis(dipentylcarbomethoxy-S,S')-, (T-4)- | 36501-84-5 | | | |

Attachment 4-18 (Prohibited substances: Attached table)

| | | |
|----------|---|-------------|
| P029-374 | Phosphonic acid, lead salt, basic | 53807-64-0 |
| P029-375 | Phosphonic acid, lead(2+) salt | 24824-71-3 |
| P029-376 | Phosphonic acid, lead(2+) salt (1:1) | 13453-65-1 |
| P029-377 | Phosphonic acid, lead(2+) salt (2:1) | 15521-60-5 |
| P029-378 | Phosphoric acid, lead(2+) salt (1:1) | 15845-52-0 |
| P029-379 | Phosphoric acid, mixed butyl and hexyl diesters, lead(2+) salts | 93925-27-0 |
| P029-380 | Phosphorodithioate O,O-bis(1,3-dimethylbutyl), lead salt | 20383-42-0 |
| P029-381 | Phosphorodithioic acid, mixed O,O-bis(butyl and pentyl) esters, lead(2+) salt | 91783-10-7 |
| P029-382 | Plumbane, chlorotriethyl- | 1067-14-7 |
| P029-383 | Plumbane, diethylmethyl- | 1762-27-2 |
| P029-384 | Plumbane, ethyl methyl derivatives | 68610-17-3 |
| P029-385 | Plumbane, ethyltrimethyl- | 1762-26-1 |
| P029-386 | Plumbane, tetrabutyl- | 1920-90-7 |
| P029-387 | Plumbane, tetrakis(1-methylethyl)- | 14846-40-3 |
| P029-388 | Plumbane, tetrakis(1-methylpropyl)- | 65151-08-8 |
| P029-389 | Plumbane, triethylmethyl- | 1762-28-3 |
| P029-390 | Plumbate (PbO ₂), disodium | 12034-30-9 |
| P029-391 | Plumbate (PbO ₄), calcium (1:2), (T-4)- | 12013-69-3 |
| P029-392 | Potassium pentadecaoxidiplumbatepentaniobate (1-) | 12372-45-1 |
| P029-393 | Residues, copper-iron-lead-nickel matte, sulfuric acid-insol. | 102110-49-6 |
| P029-394 | Salicylate, lead (II) | 6107-93-3 |
| P029-395 | Silicic acid (H ₂ SiO ₃), calcium salt (1:1), lead and manganese-doped | 100402-96-8 |
| P029-396 | Silicic acid (H ₂ SiO ₃), lead(2+) salt (1:1) | 10099-76-0 |
| P029-397 | Silicic acid (H ₄ SiO ₄), lead salt | 15906-71-5 |
| P029-398 | Silicic acid, calcium salt, lead and manganese-doped | 102110-36-1 |
| P029-399 | Silicic acid, lead nickel salt | 68130-19-8 |
| P029-400 | Slimes and sludges, lead sinter dust scrubber | 70514-37-3 |
| P029-401 | Speiss, lead-zinc | 93821-72-8 |
| P029-402 | Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, lead salt | 1326-05-2 |
| P029-403 | Stearic acid, lead (2+) salt | 1072-35-1 |
| P029-404 | Sulfuric acid, barium lead salt | 42579-89-5 |
| P029-405 | Sulfuric acid, barium salt (1:1), lead-doped | 99328-54-8 |
| P029-406 | Sulfuric acid, lead salt, tetrabasic | 52732-72-6 |
| P029-407 | Sulfuric acid, lead(2+) salt, basic | 90583-07-6 |
| P029-408 | Sulfurous acid, lead salt, basic | 52231-92-2 |
| P029-409 | Sulfurous acid, lead salt, dibasic | 62229-08-7 |
| P029-410 | Sulfurous acid, lead(2+) salt, basic | 90583-37-2 |
| P029-411 | Sulfurous acid, lead(2+) salt (1:1) | 7446-10-8 |
| P029-412 | Telluric acid (H ₂ TeO ₃), lead(2+) salt (1:1) | 15851-47-5 |
| P029-413 | Tetradecanoic acid, lead salt, basic | 90583-65-6 |
| P029-414 | Tetraethyllead | 78-00-2 |
| P029-415 | Tetramethyl lead | 75-74-1 |
| P029-416 | Tetraphenyllead | 595-89-1 |
| P029-417 | Tetrapropyl lead | 3440-75-3 |
| P029-418 | Thiosulphuric acid, lead salt | 26265-65-6 |
| P029-419 | Lead/Tin alloy | 39412-44-7 |
| P029-420 | Trinitrophenol, lead salt | 51325-28-1 |
| P029-421 | Naphthenic acid, cobalt lead manganese salt | 61789-50-2 |
| P029-422 | Lead, bis(carbonato(2-))dihydroxytri/Lead carbonate hydroxide | 1319-46-6 |
| P029-423 | Boric acid (HBO ₂), lead(2+) salt, monohydrate (8Cl, 9Cl) | 10214-39-8 |
| P029-424 | Fatty acids, C6-19-branched, lead salts, basic | 68603-83-8 |
| P029-425 | Pigment Lightfast Lead-Molybdate Orange OS (9 Cl) | 78690-68-3 |

P030 Attached table: Mercury and its compounds, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|------------|
| P030-001 | (2',7'-Dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxymercury | 55728-51-3 |
| P030-002 | Cadmium mercury telluride ((Cd,Hg)Te) | 29870-72-2 |
| P030-003 | (2-Carboxy-m-tolyl)hydroxymercury, monosodium salt | 52795-88-7 |
| P030-004 | (2-Carboxyphenyl)hydroxymercury | 14066-61-6 |
| P030-005 | (Acetato-O)ethylmercury | 109-62-6 |
| P030-006 | (Acetato-O)methylmercury | 108-07-6 |
| P030-007 | (Bromodichloromethyl)phenylmercury | 3294-58-4 |
| P030-008 | (Dihydroxyphenyl)phenylmercury | 27360-58-3 |
| P030-009 | (Lactato-O1,O2)mercury | 18918-06-4 |
| P030-010 | (Maleoyldioxy)bis[phenylmercury] | 2701-61-3 |
| P030-011 | (Metaborato-O)phenylmercury | 31224-71-2 |
| P030-012 | (Phenylmercurio)urea | 2279-64-3 |
| P030-013 | [(2-Hydroxyethyl)amino]phenylmercury acetate | 61792-06-1 |
| P030-014 | [.mu.-[(Oxydiethylene but-2-enedioato)(2-)]diphenyldimercury | 94070-92-5 |
| P030-015 | [.mu.-[[4,4'-(Oxydiethylene) bis(dodecylsuccinato)](2-)]diphenyldimercury | 93882-20-3 |
| P030-016 | [.mu.-[Metasilicato(2--O:O)]bis(2-methoxyethyl)dimercury | 19367-79-4 |
| P030-017 | [.mu.-[Orthoborato(2--O:O)]diphenyldimercury | 6273-99-0 |
| P030-018 | [2,2',2''-Nitrilotri(ethanol)-N,O,O',O'']phenylmercury lactate | 23319-66-6 |
| P030-019 | [2-Ethylhexyl hydrogen maleato-O]phenylmercury | 27605-30-7 |
| P030-020 | [Benzoato(2--C2,O1)]mercury | 5722-59-8 |

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|----------|--|------------|
| P030-021 | [Naphthoato(1--O)]phenylmercury | 31632-68-5 |
| P030-022 | (2-Ethylmercuriothio)benzoic acid | 148-61-8 |
| P030-023 | 2-Ethoxyethylmercury acetate | 124-08-3 |
| P030-024 | 2-Ethoxyethylmercury chloride | 124-01-6 |
| P030-025 | 2-Hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate | 584-18-9 |
| P030-026 | 2-Methoxyethylmercury chloride | 123-88-6 |
| P030-027 | 6-Methyl-3-nitrobenzoxamercurate | 133-58-4 |
| P030-028 | Barium tetraiodomercurate | 10048-99-4 |
| P030-029 | Bis(5-oxo-DL-prolinato-N1,O2)mercury | 94276-38-7 |
| P030-030 | Bis(5-oxo-L-prolinato-N1,O2)mercury | 94481-62-6 |
| P030-031 | Bis(acetato-O)[.mu.-[1,3-dioxane-2,5-dilybis(methylene)-c:c',O,O']]dimercury | 84029-43-6 |
| P030-032 | Bis(lactato-O1,O2)mercury | 18917-83-4 |
| P030-033 | Bis(trichloromethyl)mercury | 6795-81-9 |
| P030-034 | Bis[(+)-lactato]mercury | 33724-17-3 |
| P030-035 | Bis[(trimethylsilyl)methyl]mercury | 13294-23-0 |
| P030-036 | Bromo(2-hydroxypropyl)mercury | 18832-83-2 |
| P030-037 | Bromoethylmercury | 107-26-6 |
| P030-038 | Bromomethylmercury | 506-83-2 |
| P030-039 | Bromophenylmercury | 1192-89-8 |
| P030-040 | Chlormerodrin | 62-37-3 |
| P030-041 | Chloro(hydroxyphenyl)mercury | 1320-80-5 |
| P030-042 | Chloro(o-hydroxyphenyl)mercury | 90-03-9 |
| P030-043 | Chloro[.mu.-[(2-hydroxy-1-naphthyl)azo]phenyl]mercury | 3076-91-3 |
| P030-044 | Chloro-2-thienylmercury | 5857-39-6 |
| P030-045 | Chloro-m-tolylmercury | 5955-19-1 |
| P030-046 | Chloro-o-tolylmercury | 2777-37-9 |
| P030-047 | Cobaltate(2-), tetrakis(thiocyanato-N-), mercury(2+) (1:1), (T-4)- | 27685-51-4 |
| P030-048 | Cyclohexanebutanoic acid, mercury(2+) salt | 62638-02-2 |
| P030-049 | Diammonium tetrachloromercurate | 33445-15-7 |
| P030-050 | Diethylmercury | 627-44-1 |
| P030-051 | Dihydrogen [orthoborato(3--O)]phenylmercurate(2-) | 102-98-7 |
| P030-052 | Diiodo(5-iodopyridin-2-amine-N1)mercury | 93820-20-3 |
| P030-053 | Dimercury amidatenitrate | 1310-88-9 |
| P030-054 | Dimercury difluoride | 13967-25-4 |
| P030-055 | Dimercury diiodide | 15385-57-6 |
| P030-056 | Dimercury(I) oxalate | 2949-11-3 |
| P030-057 | Dimethyl[.mu.-[sulphato(2--O:O')]dimercury | 3810-81-9 |
| P030-058 | Dimethylmercury | 593-74-8 |
| P030-059 | Di-o-tolylmercury | 616-99-9 |
| P030-060 | Diphenyl[.mu.-[(tetrapropenyl)succinato(2--O:O')]dimercury | 27236-65-3 |
| P030-061 | Diphenylmercury | 587-85-9 |
| P030-062 | Disodium tetra(cyano-C)mercurate(2-) | 15682-88-9 |
| P030-063 | Disuccinimidomercury | 584-43-0 |
| P030-064 | Ethylmercuric chloride | 2440-42-8 |
| P030-065 | Ethylmercuric chloride | 107-27-7 |
| P030-066 | Ethylmercuric phosphate | 2235-25-8 |
| P030-067 | Fluorescein mercuric acetate | 3570-80-7 |
| P030-068 | Hexanoic acid, 2-ethyl-, mercury(2+) salt | 13170-76-8 |
| P030-069 | Hydrargaphen | 14235-86-0 |
| P030-070 | Hydrogen [metasilicato(2--O)](2-methoxyethyl)mercurate(1-) | 64491-92-5 |
| P030-071 | Hydrogen .mu.-hydroxy[.mu.-[orthoborato(3--O:O')]diphenyldimercurate(1-)] | 94277-53-9 |
| P030-072 | Hydrogen [3-[(.alpha.-carboxylato-o-anisoyl)amino]-2-hydroxypropyl]hydroxymercurate(1-) | 26552-50-1 |
| P030-073 | Iodomethylmercury | 143-36-2 |
| P030-074 | Lactatophenylmercury | 122-64-5 |
| P030-075 | Meralein sodium | 4386-35-0 |
| P030-076 | Mercaptomerin sodium | 21259-76-7 |
| P030-077 | Mercuderamide | 525-30-4 |
| P030-078 | Mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen | 59-85-8 |
| P030-079 | Mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium | 138-85-2 |
| P030-080 | Mercurate(1-), triiodo-, hydrogen, compound with 3-methyl-2(3H)-benzothiazolimine (1:1) | 72379-35-2 |
| P030-081 | Mercurate(2-), tetrachloro-, dipotassium, (T-4)- | 20582-71-2 |
| P030-082 | Mercurate(2-), tetraiodo-, (T-4)-, dihydrogen, compound with 5-iodo-2-pyridinamine (1:2) | 63325-16-6 |
| P030-083 | Mercurate(2-), tetraiodo-, dicopper(1+), (T-4)- | 13876-85-2 |
| P030-084 | Mercuric acetate | 1600-27-7 |
| P030-085 | Mercuric arsenate | 7784-37-4 |
| P030-086 | Mercuric benzoate | 583-15-3 |
| P030-087 | Mercuric bromide | 7789-47-1 |
| P030-088 | Mercuric chloride | 7487-94-7 |
| P030-089 | Mercuric cyanide | 592-04-1 |
| P030-090 | Mercuric iodide | 7774-29-0 |
| P030-091 | Mercuric nitrate | 10045-94-0 |
| P030-092 | Mercuric oxide | 21908-53-2 |
| P030-093 | Mercuric oxycyanide | 1335-31-5 |
| P030-094 | Mercuric potassium cyanide | 591-89-9 |
| P030-095 | Mercuric subsulfate | 1312-03-4 |
| P030-096 | Mercuric sulfate | 7783-35-9 |
| P030-097 | Mercuric thiocyanate | 592-85-8 |
| P030-098 | Mercurobutol | 498-73-7 |

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| P030-099 | Mercurous acetate | 631-60-7 |
| P030-100 | Mercurous azide | 38232-63-2 |
| P030-101 | Mercurous chloride | 7546-30-7 |
| P030-102 | Mercurous iodide | 7783-30-4 |
| P030-103 | Mercurous nitrate | 10415-75-5 |
| P030-104 | Mercurous oxide | 15829-53-5 |
| P030-105 | Mercurous sulfate | 7783-36-0 |
| P030-106 | Mercury | 7439-97-6 |
| P030-107 | Mercury, bromo[1-(methoxyphenylmethyl)-2-oxo-2-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)oxy]ethyl]- | 5326-00-1 |
| P030-108 | Mercury (I) chromate | 13465-34-4 |
| P030-109 | Mercury (I) nitrate | 14836-60-3 |
| P030-110 | Mercury (II) chromate | 13444-75-2 |
| P030-111 | Mercury (II) nitrate, monohydrate | 7783-34-8 |
| P030-112 | Mercury acetate | 592-63-2 |
| P030-113 | Mercury acetylde | 68833-55-6 |
| P030-114 | Mercury ammonium chloride | 10124-48-8 |
| P030-115 | Mercury bis(4-chlorobenzoate) | 15516-76-4 |
| P030-116 | Mercury bis(trifluoroacetate) | 13257-51-7 |
| P030-117 | Mercury bromide (Hg ₂ Br ₂) | 15385-58-7 |
| P030-118 | Mercury bromide (HgBr) | 10031-18-2 |
| P030-119 | Mercury chloride | 10112-91-1 |
| P030-120 | Mercury dichromate | 7789-10-8 |
| P030-121 | Mercury diiodate | 7783-32-6 |
| P030-122 | Mercury dipotassium tetrathiocyanate | 14099-12-8 |
| P030-123 | Mercury disilver tetraiodide | 7784-03-4 |
| P030-124 | Mercury distearate, pure | 645-99-8 |
| P030-125 | Mercury fluoride | 27575-47-9 |
| P030-126 | Mercury fluoride (HgF ₂) | 7783-39-3 |
| P030-127 | Mercury gluconate | 63937-14-4 |
| P030-128 | Mercury nitride | 12136-15-1 |
| P030-129 | Mercury oleate | 1191-80-6 |
| P030-130 | Mercury salicylate | 5970-32-1 |
| P030-131 | Mercury selenide (HgSe) | 20601-83-6 |
| P030-132 | Mercury silver iodide | 12344-40-0 |
| P030-133 | Mercury succinate | 589-65-1 |
| P030-134 | Mercury sulfide (HgS) | 1344-48-5 |
| P030-135 | Mercury telluride (HgTe) | 12068-90-5 |
| P030-136 | Mercury thallium dinitrate | 94022-47-6 |
| P030-137 | Mercury(1+) bromate | 13465-33-3 |
| P030-138 | Mercury(1+) ethyl sulphate | 71720-55-3 |
| P030-139 | Mercury(1+) trifluoroacetate | 2923-15-1 |
| P030-140 | Mercury(1+), amminephenyl-, acetate | 22450-90-4 |
| P030-141 | Mercury(2+) (9Z,12Z)-octadeca-9,12-dienoate | 7756-49-2 |
| P030-142 | Mercury(2+) chloroacetate | 26719-07-3 |
| P030-143 | Mercury(2+), bis(2,4,6-tri-2-pyridinyl-1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)- | 53010-52-9 |
| P030-144 | Mercury(II) oxalate | 3444-13-1 |
| P030-145 | Mercury(II) potassium iodide | 7783-33-7 |
| P030-146 | Mercury, (2-ethylhexanoato-O)(1-methoxycyclohexyl)- | 103332-13-4 |
| P030-147 | Mercury, (1-methoxycyclohexyl)(neodecanoato-O)- | 103369-15-9 |
| P030-148 | Mercury, (1-methoxyethyl)(9-octadecenoato-O)-, | 104325-07-7 |
| P030-149 | Mercury, (1-methoxycyclohexyl)(9-octadecenoato-O)-, | 104325-08-8 |
| P030-150 | Mercury, (1-methoxyethyl)(neodecanoato-O)- | 104335-53-7 |
| P030-151 | Mercury, (2-ethylhexanoato-O)(1-methoxyethyl) | 104339-46-0 |
| P030-152 | Mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen-4-yl]hydroxy-, disodium salt | 129-16-8 |
| P030-153 | Mercury, (2-ethylhexanoato-O)phenyl- | 13302-00-6 |
| P030-154 | Mercury, (9-octadecenoato-O)phenyl-, (Z)- | 104-60-9 |
| P030-155 | Mercury, (acetato-O)(2-hydroxy-5-nitrophenyl)- | 63468-53-1 |
| P030-156 | Mercury, (acetato-O)(4-aminophenyl)- | 6283-24-5 |
| P030-157 | Mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]- | 5954-14-3 |
| P030-158 | Mercury, (acetato-O)[4-[[4-(dimethylamino)phenyl]azo]phenyl]- | 19447-62-2 |
| P030-159 | Mercury, (acetato-O)diamminephenyl-, (T-4)- | 68201-97-8 |
| P030-160 | Mercury, (neodecanoato-O)phenyl- | 26545-49-3 |
| P030-161 | Mercury, [mu.-[dodecylbutanedioato(2-)-O:O]]diphenyldi- | 24806-32-4 |
| P030-162 | Mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]- | 33770-60-4 |
| P030-163 | Mercury, bis(4-methylphenyl)- | 537-64-4 |
| P030-164 | Mercury, bis(acetato-O)(benzenamine)- | 63549-47-3 |
| P030-165 | Mercury, bis(phenyldiazene-carbothioic acid 2-phenylhydrazidato-N2,S)-, (T-4)- | 14783-59-6 |
| P030-166 | Mercury, chloro(2-hydroxy-5-nitrophenyl)- | 24579-90-6 |
| P030-167 | Mercury, chloro(4-hydroxyphenyl)- | 623-07-4 |
| P030-168 | Mercury, chloro(4-methylphenyl)- | 539-43-5 |
| P030-169 | Mercury, chloro(ethanethiolato)- | 1785-43-9 |
| P030-170 | Mercury, chloro[2-(2-cyclohexen-1-yl)-3-benzofuranyl]- | 90584-88-6 |
| P030-171 | Mercury, chloro[p-(2,4-diaminoinilino)phenyl]- | 15785-93-0 |
| P030-172 | Mercury, compound with sodium (2:1) | 12055-37-7 |
| P030-173 | Mercury, compound with sodium (4:1) | 57363-77-6 |
| P030-174 | Mercury, compound with titanium (1:3) | 11083-41-3 |

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| P030-175 | Mercury, dibutyl- | 629-35-6 |
| P030-176 | Mercury, iodo(iodomethyl)- | 141-51-5 |
| P030-177 | Mercury, methyl(8-quinolinolato-N1,O8)- | 86-85-1 |
| P030-178 | Mercury, phenyl(phenyldiazene-carbothioic acid 2-phenylhydrazidato)- | 56724-82-4 |
| P030-179 | Mercury, phenyl(propanoato-O)- | 103-27-5 |
| P030-180 | Mercury, phenyl(trichloromethyl)- | 3294-57-3 |
| P030-181 | Mercurymethylchloride | 115-09-3 |
| P030-182 | Mersalyl | 492-18-2 |
| P030-183 | Mersalyl acid | 486-67-9 |
| P030-184 | Methoxyethylmercuric acetate | 151-38-2 |
| P030-185 | Methyl mercury dicyandiamide | 502-39-6 |
| P030-186 | Methyl(pentachlorophenolato)mercury | 5902-76-1 |
| P030-187 | Methylmercury | 22967-92-6 |
| P030-188 | Methylmercury benzoate | 3626-13-9 |
| P030-189 | Methylmercury hydroxide | 1184-57-2 |
| P030-190 | N-(Ethylmercuric)-p-toluenesulphonamide | 517-16-8 |
| P030-191 | Naphthenic acids, mercury salts | 1336-96-5 |
| P030-192 | Nitric acid, mercury(2+) salt, hemihydrate | 13465-31-1 |
| P030-193 | Otimate sodium | 16509-11-8 |
| P030-194 | Perchloric acid, mercury(2+) salt | 7616-83-3 |
| P030-195 | Phenyl(quinolin-8-olato-N1,O8)mercury | 14354-56-4 |
| P030-196 | Phenyl(tribromomethyl)mercury | 3294-60-8 |
| P030-197 | Phenylmercuric acetate | 62-38-4 |
| P030-198 | Phenylmercuric hydroxide | 100-57-2 |
| P030-199 | Phenylmercuric nitrate | 55-68-5 |
| P030-200 | Phenylmercury benzoate | 94-43-9 |
| P030-201 | Phenylmercury chloride | 100-56-1 |
| P030-202 | Phenylmercury dimethyldithiocarbamate | 32407-99-1 |
| P030-203 | Phenylmercury hydroxide--phenylmercury nitrate | 8003-05-2 |
| P030-204 | Phenylmercury salicylate | 28086-13-7 |
| P030-205 | Phenylmercury stearate | 104-59-6 |
| P030-206 | Phosphoric acid, mercury salt | 10451-12-4 |
| P030-207 | Potassium triiodomercurate(1-) | 22330-18-3 |
| P030-208 | Sodium [3-[[[(3-carboxylatopropionamido)carbonyl]amino]-2-methoxypropyl]hydroxymmercurate(1-)] | 7620-30-6 |
| P030-209 | Sodium 4-chloromercuriobenzoate | 3198-04-7 |
| P030-210 | Sodium o-(ethylmercurithio)benzoate | 54-64-8 |
| P030-211 | Sodium timerfonate | 5964-24-9 |
| P030-212 | Tetrakis(acetato-O)[mu.4-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen-2',4',5',7'-tetrayl)]tetramercury | 54295-90-8 |
| P030-213 | Trimercury biscitrate | 18211-85-3 |
| P030-214 | Cadmium Mercury Sulfide | 1345-09-1 |
| P030-215 | Mercury, (2-mercaptoacetamidato-O,S)methyl | 7548-26-7 |
| P030-216 | Mercury-difluminate | 628-86-4 |

P036 Attached table: 2-Naphthylamine and its salts, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|----------|
| P036-001 | 2-Naphthylamine | 91-59-8 |
| P036-002 | 2-Naphthylammoniumacetat | 553-00-4 |

P038 Attached table: N-Nitrosamines, selected

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|------------|
| P038-001 | N-Nitroso diethanol amine | 1116-54-7 |
| P038-002 | N-Nitroso diethyl amine | 55-18-5 |
| P038-003 | N-Nitroso dimethyl amine | 62-75-9 |
| P038-004 | N-Nitroso ethyl phenyl amine | 612-64-6 |
| P038-005 | N-Nitroso methyl ethyl amine | 10595-95-6 |
| P038-006 | N-Nitroso methyl phenyl amine | 614-00-6 |
| P038-007 | N-Nitroso morpholine | 59-89-2 |
| P038-008 | N-Nitroso pyrrolidine | 930-55-2 |
| P038-009 | N-Nitrosodi-i-propyl amine | 601-77-4 |
| P038-010 | N-Nitrosodi-n-butylamine | 924-16-3 |
| P038-011 | N-Nitrosodi-n-propyl amine | 621-64-7 |
| P038-012 | N-Nitrosopiperidine | 100-75-4 |

P039 Attached table: Halogenated hydrocarbons and carbons of ozone depletion

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|-------------|
| P039-001 | 1,1,1,2-Tetrachlor-2,2-difluoroethane | 76-11-9 |
| P039-002 | 1,1,1,3,3,3-Hexachlor-2,2-difluoropropane | 3182-26-1 |
| P039-003 | 1,1,1,3,3-Pentachlor-2,2,3-trifluoropropane | 2354-06-5 |
| P039-004 | 1,1,1,3-Tetrachlorotetrafluoropropane | 2268-46-4 |
| P039-005 | 1,1,1-Tribromo-2,2,2-trifluoroethane | 354-48-3 |
| P039-006 | 1,1,1-Trichloropentafluoropropane | 4259-43-2 |
| P039-007 | 1,1,2-trichloro-1,2,2-trifluoroethane | 76-13-1 |
| P039-008 | 1,1-Dibromo-1,2,2,2-tetrafluoroethane | 27336-23-8 |
| P039-009 | 1,1-Dibromo-2,2-difluoroethylene | 430-85-3 |
| P039-010 | 1,1-Dichlor-1,2,2,2-tetrafluoroethane | 374-07-2 |
| P039-011 | 1,2,2-Trichloropentafluoropropane | 1599-41-3 |
| P039-012 | 1,2,3-Trichloropentafluoropropane | 76-17-5 |
| P039-013 | 1,2-Dibromo-1,1,2-trichloroethane | 13749-38-7 |
| P039-014 | 1,2-Dibromo-1-chloro-1,2,2-trifluoroethane | 354-51-8 |
| P039-015 | 1,2-Dibromotetrachloroethane | 630-25-1 |
| P039-016 | 1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane | 661-97-2 |
| P039-017 | 1,2-Dichloro-1,1,3,3,3-pentafluoropropane | 127564-92-5 |
| P039-018 | 1,2-Difluorotetrachloroethane | 76-12-0 |
| P039-019 | 1-Bromo-1-chloro-2,2-difluoroethylene | 758-24-7 |
| P039-020 | 2-Bromo-1,1-dichloroethylene | 5870-61-1 |

| | | |
|----------|---|-------------|
| P039-021 | Bromochlorodifluoromethane | 353-59-3 |
| P039-022 | Bromodichlorofluoromethane | 353-58-2 |
| P039-023 | Bromofluoromethane | 373-52-4 |
| P039-024 | Bromopentafluoroethane | 354-55-2 |
| P039-025 | Bromotrifluoroethylene | 598-73-2 |
| P039-026 | Bromotrifluoromethane | 75-63-8 |
| P039-027 | Carbon tetrabromide | 558-13-4 |
| P039-028 | Carbon tetrachloride | 56-23-5 |
| P039-029 | Chlorobromomethane | 74-97-5 |
| P039-030 | Chlorobromotrifluoroethane | 74925-63-6 |
| P039-031 | Chlorodibromomethane | 124-48-1 |
| P039-032 | chlorotrifluoroethylene | 79-38-9 |
| P039-033 | Chlorotrifluoromethane | 75-72-9 |
| P039-034 | Cryofluorane | 76-14-2 |
| P039-035 | Dibromodichloromethane | 594-18-3 |
| P039-036 | Dibromodifluoromethane | 75-61-6 |
| P039-037 | Dibromotetrafluoroethane | 25497-30-7 |
| P039-038 | Dibromotetrafluoroethane (Halon 2402) | 124-73-2 |
| P039-039 | Dichlorodifluoroethane | 75-71-8 |
| P039-040 | dichlorotetrafluoroethane | 1320-37-2 |
| P039-041 | Ethane, 1-bromo-2-chloro-1,1,2-trifluoro- | 354-06-3 |
| P039-042 | Ethane, 2-bromo-1-chloro-1,1,2-trifluoro- | 354-20-1 |
| P039-043 | Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (R)- | 51230-17-2 |
| P039-044 | Ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (S)- | 51230-18-3 |
| P039-045 | Ethane, tribromo- | 598-16-3 |
| P039-046 | Ethane, tetrabromo- | 79-28-7 |
| P039-047 | Heptachlorofluoropropane | 135401-87-5 |
| P039-048 | Heptachlorofluoropropane | 422-78-6 |
| P039-049 | Heptafluoropropyl chloride | 422-86-6 |
| P039-050 | Hexachlorodifluoropropane | 134452-44-1 |
| P039-051 | Hexachloroethane | 67-72-1 |
| P039-052 | Methane, bromotrifluoro- | 75-62-7 |
| P039-053 | Methane, tribromofluoro- | 353-54-8 |
| P039-054 | Methyl bromide (Bromomethane) | 74-83-9 |
| P039-055 | Monochloropentafluoroethane | 76-15-3 |
| P039-056 | Pentabromoethane | 75-95-6 |
| P039-057 | Pentachlorofluoroethane | 354-56-3 |
| P039-058 | Pentachlorotrifluoropropane | 134237-31-3 |
| P039-059 | Tetrachlorotetrafluoropropane | 29255-31-0 |
| P039-060 | Tribromochloromethane | 594-15-0 |
| P039-061 | Trichlorofluoromethane | 75-69-4 |
| P039-062 | Trichlorotrifluoroethane | 26523-64-8 |
| P039-063 | Trichlorotrifluoroethane | 354-58-5 |

P041 Attached table: Pentachlorophenol (PCP) and its salts, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-----------|
| P041-001 | Methyl(pentachlorophenolato)mercury | 5902-76-1 |
| P041-002 | Pentachlorophenol | 87-86-5 |
| P041-003 | Potassium pentachlorophenate | 7778-73-6 |
| P041-004 | Sodium Pentachlorophenate | 131-52-2 |
| P041-005 | Zinc bis(pentachlorophenolate) | 2917-32-0 |

P042 Attached table: Perchlorates

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|------------|
| P042-001 | Ammonium perchlorate | 7790-98-9 |
| P042-002 | Barium perchlorate | 13465-95-7 |
| P042-003 | Lead perchlorate | 13637-76-8 |
| P042-004 | Lithium Perchlorate | 7791-03-9 |
| P042-005 | Magnesium Perchlorate | 10034-81-8 |
| P042-006 | Perchloric acid, reaction products with lead oxide (pbo) and triethanolamine | 99749-31-2 |
| P042-007 | Perchloric acid, cobalt (2+) salt | 13455-31-7 |
| P042-008 | Perchloric acid, mercury(2+) salt | 7616-83-3 |
| P042-009 | Perchloric acid, nickel(2+) salt, hexahydrate | 13520-61-1 |
| P042-010 | Nickel perchlorate | 13637-71-3 |
| P042-011 | Potassium Perchlorate | 7778-74-7 |
| P042-012 | Sodium Perchlorate | 7601-89-0 |
| P042-013 | Thallium(3+) perchlorate | 15596-83-5 |

P043 Attached table: Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers) (PFOS), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|-------------|
| P043-001 | Perfluorooctane sulfonate acid | 1763-23-1 |
| P043-002 | Perfluorooctane sulfonate anion | 45298-90-6 |
| P043-003 | Perfluoro-1-octanesulfonyl fluoride | 307-35-7 |
| P043-004 | 2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl(perfluoro-C4-8-alkyl)sulfonyl]amino ethyl acrylate and vinylidene chloride | 306975-62-2 |
| P043-005 | Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt | 2991-51-7 |
| P043-006 | Perfluorooctane sulfonate potassium salt | 2795-39-3 |
| P043-007 | Perfluorooctane sulfonate ammonium salt | 29081-56-9 |
| P043-008 | Perfluorooctane sulfonate lithium salt | 29457-72-5 |
| P043-009 | Tetraethylammoniumheptadecafluorooctansulfonate | 56773-42-3 |

P044 Attached table: PFOA, perfluorooctanoic acid C8F15O2H, its salts, esters, higher homologs and precursors

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-----------|
| P044-001 | Ammonium salt of PFOA | 3825-26-1 |

| | | |
|----------|---|-------------|
| P044-002 | Cyclotetrasiloxane, 2-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)-2,4,6,8-tetramethyl-, Si-[3-(oxiranylmethoxy)propyl] derivs | 206886-57-9 |
| P044-003 | Ethylperfluorooctanoate | 3108-24-5 |
| P044-004 | Methylperfluorooctanoate | 376-27-2 |
| P044-005 | Pentadecafluorooctyl fluoride | 335-66-0 |
| P044-006 | Perfluoro compounds, C5-18 | 86508-42-1 |
| P044-007 | Poly(oxy-1,2-ethanedivyl), alpha-(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)-omega-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl)oxy]- | 122402-79-3 |
| P044-008 | Potassium salt of PFOA | 2395-00-8 |
| P044-009 | 2-Propenoic acid, C16-18-alkyl esters, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate | 160336-09-4 |
| P044-010 | 2-Propenoic acid, 2-methyl-, methyl ester, telomere with 1-dodecanethiol, 2-ethylhexyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 2-Propenoic acid | 321318-71-2 |
| P044-011 | Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl group]-terminated, polymers with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol- and 2-hydroxyethyl acrylate-blocked 2,4-TDI-trimethylolpropane polymer | 501098-09-5 |
| P044-012 | Silver salt of PFOA | 335-93-3 |
| P044-013 | Sodium salt of PFOA | 335-95-5 |
| P044-014 | Trisiloxane, 3,3'-(3,3,4,4,5,5,6,6,7,7,8,8-dodecafluoro-1,10-decanedivyl)bis[3-[(dimethylsilyloxy)-1,1,5,5-tetramethyl-, reaction products with 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-undecane | 185701-89-7 |
| P044-015 | PFOA - perfluorooctanoic acid | 335-67-1 |

P047 Attached table: Phthalic esters (specific)

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|----------|
| P047-001 | Benzylbutylphthalate (BBP) | 85-68-7 |
| P047-003 | Di(2-ethylhexyl)phthalate (DEHP) | 117-81-7 |
| P047-004 | Dibutylphthalate (DBP) | 84-74-2 |
| P047-005 | Diisobutylphthalate (DiBP) | 84-69-5 |

P048 Attached table: Polybrominated biphenyls (PBB), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|------------|
| P048-001 | 1,1'-Biphenyl, 2,2',3,4',5'-pentabromo- | 73141-48-7 |
| P048-002 | 1,1'-Biphenyl, 2,2',3,4,6'-pentabromo- | 77910-04-4 |
| P048-003 | 1,1'-Biphenyl, 2,2',3,5',6'-pentabromo- | 88700-05-4 |
| P048-004 | 1,1'-Biphenyl, 2,2',4,4',5'-pentabromo- | 81397-99-1 |
| P048-005 | 1,1'-Biphenyl, 2,2',4,4',6'-pentabromo- | 97038-97-6 |
| P048-006 | 1,1'-Biphenyl, 2,2',4,4'-tetrabromo- | 66115-57-9 |
| P048-007 | 1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo- | 59080-40-9 |
| P048-008 | 1,1'-Biphenyl, 2,2',4,5,5'-pentabromo- | 67888-96-4 |
| P048-009 | 1,1'-Biphenyl, 2,2',4,5',6'-pentabromo- | 59080-39-6 |
| P048-010 | 1,1'-Biphenyl, 2,2',4,5,6'-pentabromo- | 80274-92-6 |
| P048-011 | 1,1'-Biphenyl, 2,2',4,5'-tetrabromo- | 60044-24-8 |
| P048-012 | 1,1'-Biphenyl, 2,2',4,6,6'-pentabromo- | 97063-75-7 |
| P048-013 | 1,1'-Biphenyl, 2,2',4,6'-tetrabromo- | 97038-95-4 |
| P048-014 | 1,1'-Biphenyl, 2,2',5,5'-tetrabromo- | 59080-37-4 |
| P048-015 | 1,1'-Biphenyl, 2,2',5,6'-tetrabromo- | 60044-25-9 |
| P048-016 | 1,1'-Biphenyl, 2,2',5-tribromo- | 59080-34-1 |
| P048-017 | 1,1'-Biphenyl, 2,2',6,6'-tetrabromo- | 97038-96-5 |
| P048-018 | 1,1'-Biphenyl, 2,2'-dibromo- | 13029-09-9 |
| P048-019 | 1,1'-Biphenyl, 2,3,4,4',5'-pentabromo- | 96551-70-1 |
| P048-020 | 1,1'-Biphenyl, 2',3,4,4',5'-pentabromo- | 74114-77-5 |
| P048-021 | 1,1'-Biphenyl, 2,3',4,4',5'-pentabromo- | 84303-45-7 |
| P048-022 | 1,1'-Biphenyl, 2,3,4,5,6'-pentabromo- | 38421-62-4 |
| P048-023 | 1,1'-Biphenyl, 2,3',4,5'-tetrabromo- | 59080-38-5 |
| P048-024 | 1,1'-Biphenyl, 2,3',5-tribromo- | 59080-35-2 |
| P048-025 | 1,1'-Biphenyl, 2,3'-dibromo- | 49602-90-6 |
| P048-026 | 1,1'-Biphenyl, 2,3,3',4'-tetrabromo- | 40088-45-7 |
| P048-027 | 1,1'-Biphenyl, 2,4,4',6'-tetrabromo- | 64258-02-2 |
| P048-028 | 1,1'-Biphenyl, 2,4',5-tribromo- | 59080-36-3 |
| P048-029 | 1,1'-Biphenyl, 2,4,6-tribromo- | 59080-33-0 |
| P048-030 | 1,1'-Biphenyl, 2,4',6-tribromo- | 64258-03-3 |
| P048-031 | 1,1'-Biphenyl, 2,4'-dibromo- | 49602-91-7 |
| P048-032 | 1,1'-Biphenyl, 2,4-dibromo- | 53592-10-2 |
| P048-033 | 1,1'-Biphenyl, 2,5-dibromo- | 57422-77-2 |
| P048-034 | 1,1'-Biphenyl, 2,6-dibromo- | 59080-32-9 |
| P048-035 | 1,1'-Biphenyl, 3,3',4,4'-tetrabromo- | 77102-82-0 |
| P048-036 | 1,1'-Biphenyl, 3,3',4,5'-tetrabromo- | 97038-98-7 |
| P048-037 | 1,1'-Biphenyl, 3,3',5,5'-tetrabromo- | 16400-50-3 |
| P048-038 | 1,1'-Biphenyl, 3,3'-dibromo- | 16400-51-4 |
| P048-039 | 1,1'-Biphenyl, 3,4,4',5-tetrabromo- | 59589-92-3 |
| P048-040 | 1,1'-Biphenyl, 3,4'-dibromo- | 57186-90-0 |
| P048-041 | 1,1'-Biphenyl, 3,4-dibromo- | 60108-72-7 |
| P048-042 | 1,1'-Biphenyl, 4,4'-dibromo- | 92-86-4 |
| P048-043 | 1,1'-Biphenyl, dibromo- | 27479-65-8 |
| P048-044 | Decabromobiphenyl | 13654-09-6 |
| P048-045 | Firemaster BP-6 | 59536-65-1 |
| P048-046 | Firemaster FF-1 | 67774-32-7 |
| P048-047 | Hexabromobiphenyl | 36355-01-8 |
| P048-048 | Octabromobiphenyl | 27858-07-7 |
| P048-049 | Bromkal 80 | 61288-13-9 |

P049 Attached table: Polybrominated diphenyl ethers (PBDE) ,all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|------------|
| P049-001 | Decabromodiphenyl ether ('Deca'; Decabromodiphenyl oxide) (Benzene, 1,1'-oxybis[2,3,4,5,6-pentabromo-) | 1163-19-5 |
| P049-002 | Dibromodiphenyl ether | 2050-47-7 |
| P049-003 | Monobromodiphenyl ether | 101-55-3 |
| P049-004 | Nonabromodiphenyl ether | 63936-56-1 |
| P049-005 | Octabromodiphenyl ether ('Octa') (Benzene, 1,1'-oxybis-, octabromo deriv.) | 32536-52-0 |
| P049-006 | Pentabromodiphenyl ether ('Penta') (Benzene, 1,1'-oxybis-, pentabromo deriv.) | 32534-81-9 |
| P049-007 | Hexabromodiphenyl ether | 36483-60-0 |
| P049-008 | Heptabromodiphenyl ether | 68928-80-3 |
| P049-009 | Tetrabromodiphenyl ether | 40088-47-9 |
| P049-010 | Tribromodiphenyl ether | 49690-94-0 |

P050 Attached table: Polychlorinated biphenyls (PCB), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---------------------------------------|------------|
| P050-001 | 1,1'-Biphenyl, 2,4',5'-trichloro- | 16606-02-3 |
| P050-002 | 2,2',4,4'-Tetrachlorobiphenyl | 2437-79-8 |
| P050-003 | 2,3',4,4',5,5'-HEXACHLOROBIPHENYL | 52663-72-6 |
| P050-004 | 2,4,5,2',4',5'-Hexachlorobiphenyl | 35065-27-1 |
| P050-005 | 3,3',4,4'-TETRACHLOROBIPHENYL | 32598-13-3 |
| P050-006 | 3,4,5,3',4',5'-Hexachlorobiphenyl | 32774-16-6 |
| P050-007 | Aroclor 1016 | 12674-11-2 |
| P050-008 | Aroclor 1221 | 11104-28-2 |
| P050-009 | Aroclor 1232 | 11141-16-5 |
| P050-010 | Aroclor 1242 | 53469-21-9 |
| P050-011 | Aroclor 1248 | 12672-29-6 |
| P050-012 | Aroclor 1254 | 11097-69-1 |
| P050-013 | Aroclor 1260 | 11096-82-5 |
| P050-014 | Heptachloro-1,1'-biphenyl | 28655-71-2 |
| P050-015 | Nonachloro-1,1'-biphenyl | 53742-07-7 |
| P050-016 | pentachloro[1,1'-biphenyl] | 25429-29-2 |
| P050-017 | Polychlorinated biphenyls | 1336-36-3 |
| P050-018 | Tetrachloro(tetrachlorophenyl)benzene | 31472-83-0 |

P051 Attached table: Polychlorinated Naphthalenes, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|------------|
| P051-001 | Naphthalene, chloro derivatives | 70776-03-3 |
| P051-002 | Naphthalene, trichloro- | 1321-65-9 |
| P051-003 | Pentachloronaphthalene | 1321-64-8 |

P052 Attached table: Polychlorinated terphenyls (pcts)

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|------------|
| P052-001 | Terphenyl, chlorinated | 61788-33-8 |

P053 Attached table: Polycyclic aromatic hydrocarbons(PAH; PCAH), selected

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|----------|
| P053-001 | Anthracene | 120-12-7 |
| P053-002 | Benz[a]anthracene | 56-55-3 |
| P053-003 | Benz[e]acephenanthrylene | 205-99-2 |
| P053-004 | Benzo[a]pyrene | 50-32-8 |
| P053-005 | Benzo[e]pyrene | 192-97-2 |
| P053-006 | Benzo[j]fluoranthene | 205-82-3 |
| P053-007 | Benzo[k]fluoranthene | 207-08-9 |
| P053-008 | Chrysene | 218-01-9 |
| P053-009 | Dibenz[a,h]anthracene | 53-70-3 |
| P053-010 | Naphthalene | 91-20-3 |

P054 Attached table: Radioactive substances (including scrap metal contaminants), all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--------------------------------------|-----------|
| P054-001 | Plutonium | 7440-07-5 |
| P054-002 | Radium | 7440-14-4 |
| P054-003 | Thorium | 7440-29-1 |
| P054-004 | Thorium Dioxide | 1314-20-1 |
| P054-005 | Uranium | 7440-61-1 |
| P054-006 | Uranium Compounds | |

P056 Attached table: Tetrachlorobenzene, all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|---|------------|
| P056-001 | 1,2,3,4-tetrachlorobenzene | 634-66-2 |
| P056-002 | 1,2,3,5-Tetrachlorobenzene (Benzene, 1,2,3,5-tetrachloro-) | 634-90-2 |
| P056-003 | Benzene, tetrachloro- | 12408-10-5 |
| P056-004 | 1,2,4,5- tetrachlorobenzene | 95-94-3 |

P057Attached table: Triorganotin compounds all members

| NTN No. | Environmentally hazardous substances | CAS-No. |
|----------|--|------------|
| P057-001 | (2-BIPHENYLOXY)TRIBUTYLTIN | 3644-37-9 |
| P057-002 | (Chloroacetoxy)triphenylstannane | 7094-94-2 |
| P057-003 | [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-Tributy[[[1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthryl]carbonyl]oxy]stannane | 26239-64-5 |
| P057-004 | 1,3,5-TRIS(TRIBUTYLTIN)-S-TRIAZINE-2,4,6-TRIO NE | 752-58-9 |

| | | |
|----------|---|------------|
| P057-005 | 2-BUTENOIC ACID, 4-OXO-4-[(TRIBUTYLSTANNYL)OXY]- | 4027-18-3 |
| P057-006 | BIS(TRIBUTYLTIN) ITACONATE | 25711-26-6 |
| P057-007 | Bis(tributyltin)oxide | 56-35-9 |
| P057-008 | Bis(tris(2-methyl-2-phenylpropyl)tin) oxide | 13356-08-6 |
| P057-009 | Bis(tributyltin) maleate | 14275-57-1 |
| P057-010 | Bis(tributyltin)phthalate | 4782-29-0 |
| P057-011 | Bis(tributylstannyl)Fumarate | 6454-35-9 |
| P057-012 | Bromotrimethylstannane | 1066-44-0 |
| P057-013 | P-NITROPHENOXYTRIBUTYLTIN | 3644-32-4 |
| P057-014 | Stannane, acetoxytriphenyl- | 900-95-8 |
| P057-015 | Stannane, bromotriethyl- | 2767-54-6 |
| P057-016 | Stannane, fluorotriphenyl- | 379-52-2 |
| P057-017 | Stannane, tributylfluoro- | 1983-10-4 |
| P057-018 | Tributyl(lauroyloxy)stannane | 3090-36-6 |
| P057-019 | Tributyl(neodecanoxy)stannane | 28801-69-6 |
| P057-020 | Tributyl(oleoyloxy)stannane | 3090-35-5 |
| P057-021 | Tributyltin | 56573-85-4 |
| P057-022 | Tributyltin (and salts and esters) | 688-73-3 |
| P057-023 | Tributyltin .alpha.-(2,4,5-trichlorophenoxy) propionate | 73940-89-3 |
| P057-024 | Tributyltin .beta.-iodopropionate | 73927-95-4 |
| P057-025 | TRIBUTYLTIN 2-ETHYLHEXANOATE | 5035-67-6 |
| P057-026 | Tributyltin acetate | 56-36-0 |
| P057-027 | Tributyltin Acrylate | 13331-52-7 |
| P057-028 | Tributyltin benzoate | 4342-36-3 |
| P057-029 | Tributyltin bromide | 1461-23-0 |
| P057-030 | Tributyltin chloride | 1461-22-9 |
| P057-031 | TRIBUTYLTIN CHLOROACETATE | 5847-52-9 |
| P057-032 | Tributyltin cinnamate | 27147-18-8 |
| P057-033 | TRIBUTYLTIN CYANATE | 4027-17-2 |
| P057-034 | TRIBUTYLTIN CYANIDE | 2179-92-2 |
| P057-035 | Tributyltin dimethyldithiocarbamate | 20369-63-5 |
| P057-036 | TRIBUTYLTIN GAMMA-CHLOROBUTYRATE | 33550-22-0 |
| P057-037 | Tributyltin hydroxide | 1067-97-6 |
| P057-038 | Tributyltin iodide | 7342-47-4 |
| P057-039 | Tributyltin iodoacetate | 73927-91-0 |
| P057-040 | Tributyltin isooctylthioacetate | 73927-97-6 |
| P057-041 | TRIBUTYLTIN ISOPROPYLSUCCINATE | 53404-82-3 |
| P057-042 | Tributyltin isothiocyanate | 681-99-2 |
| P057-043 | Tributyltin linoleate | 24124-25-2 |
| P057-044 | Tributyltin methacrylate | 2155-70-6 |
| P057-045 | TRIBUTYLTIN METHANESULPHONATE | 13302-06-2 |
| P057-046 | Tributyltin methoxide | 1067-52-3 |
| P057-047 | Tributyltin monopropylene glycol maleate | 53466-85-6 |
| P057-048 | TRIBUTYLTIN NAPHTHENATE | 36631-23-9 |
| P057-049 | Tributyltin naphthenate | 85409-17-2 |
| P057-050 | Tributyltin nonanoate | 4027-14-9 |
| P057-051 | TRIBUTYLTIN O-IODOBENZOATE | 73927-93-2 |
| P057-052 | TRIBUTYLTIN P-IODOBEMZOATE | 73940-88-2 |
| P057-053 | Tributyltin sulfamate | 6517-25-5 |
| P057-054 | TRIBUTYLTIN UNDECYLENATE | 69226-47-7 |
| P057-055 | 1-(Tricyclohexylstannyl)-1H-1,2,4-triazole | 41083-11-8 |
| P057-056 | Triethyltin acetate | 1907-13-7 |
| P057-057 | Triethyltin chloride | 994-31-0 |
| P057-058 | Triethyltin hydroxide | 994-32-1 |
| P057-059 | Triethyltin iodide | 2943-86-4 |
| P057-060 | Triethyltin phenoxide | 1529-30-2 |
| P057-061 | Trimethyltin acetate | 1118-14-5 |
| P057-062 | Trimethyltin azide | 1118-03-2 |
| P057-063 | Trimethyltin chloride | 1066-45-1 |
| P057-064 | Trimethyltin hydroxide | 56-24-6 |
| P057-065 | Trimethyltin iodide | 811-73-4 |
| P057-066 | Trimethyltin sulphate | 63869-87-4 |
| P057-067 | Trimethyltin thiocyanate | 4638-25-9 |
| P057-068 | Tri-n-butyl tin salicylate | 4342-30-7 |
| P057-069 | Triphenylstannyl decanoate | 47672-31-1 |
| P057-070 | Triphenyl tin chloride | 639-58-7 |
| P057-071 | Triphenyltin dimethyldithiocarbamate | 1803-12-9 |
| P057-072 | Triphenyltin hydride | 892-20-6 |
| P057-073 | Triphenyltin hydroxide | 76-87-9 |
| P057-074 | Triphenyltin iodide | 894-09-7 |
| P057-075 | Tripropyltin acetate | 3267-78-5 |
| P057-076 | Tripropyltin bromide | 2767-61-5 |
| P057-077 | Tripropyltin chloride | 2279-76-7 |
| P057-078 | Tripropyltin iodide | 7342-45-2 |
| P057-079 | Tripropyltin iodoacetate | 73927-92-1 |
| P057-080 | Tripropyltin laurate | 57808-37-4 |
| P057-081 | Tripropyltin methacrylate | 4154-35-2 |
| P057-082 | Tricyclohexyl Tin Compounds | |
| P057-083 | Triethyl Tin Compounds | |
| P057-084 | Trihexyl Tin Compounds | |
| P057-085 | Trimethyl Tin Compounds | |
| P057-086 | Trioctyl Tin Compounds | |
| P057-087 | Triphenyl Tin Compounds | |
| P057-088 | Triphenyl Tin Compounds | |
| P057-089 | Tripropyl Tin Compounds | |

[Reference] P061 Attached table: "Chemical Substances Control Law" Class I Specified Chemical Substances

| NTN No. | Environmentally hazardous substances |
|----------|---|
| P061-001 | Polychlorinated Biphenyl |
| P061-002 | Polychlorinated naphthalenes (limited to those with the number of chlorine of 2 or more.) |
| P061-003 | Hexachlorobenzene |
| P061-004 | 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene (aldrin) |
| P061-005 | 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-dimethanonaphthalene (dieldrin) |
| P061-006 | 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-dimethanonaphthalene (endrin) |
| P061-007 | 1,1,1-Trichloro-2,2-bis (4-Chlorophenyl)ethane (DDT) |
| P061-008 | 1,2,4,5,6,7,8,8-Octachloro-2,3,3a-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 mixtures of their analog compounds (chlordane or heptachlor) |
| P061-009 | Bis (tributyltin)=Oxydo |
| P061-010 | N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-Dixylyl -p-phenylenediamine, |
| P061-011 | 2,4,6-tri-tert-butylphenol |
| P061-012 | Polychloro-2,2-dimethyl-3-methylidenebicyclo[2,2,1]heptane (toxaphene) |
| P061-013 | Dodecachloropentacyclo[5,3,0,0(2,6),0(4,8)]decane (mirex) |
| P061-014 | 2,2,2-Trichloro-1,1-bis (4-Chlorophenyl)ethanol (kelthane or dicofol) |
| P061-015 | Hexachlorobuta-1,3-diene |
| P061-016 | 2-(2H-1,2,3-benzotriazole-2-yl)-4,6-di-tert-butylphenol |
| P061-017 | Perfluoro (octane-1-sulfonic acid) (PFOS) or its salts |
| P061-018 | Perfluoro (octane-1-sulfonyl)= fluoride (PFOS) |
| P061-019 | Pentachlorobenzene |
| P061-020 | r-1,c-2,t-3,c-4,t-5,t-6-hexachlorocyclo-hexane (α-hexachlorocyclo-hexane) |
| P061-021 | r-1,t-2,c-3,t-4,c-5,t-6-hexachlorocyclo-hexane (β-hexachlorocyclo-hexane) |
| P061-022 | r-1,c-2,t-3,c-4,c-5,t-6-hexachlorocyclo-hexane (γ-hexachlorocyclo-hexane or lindane) |
| P061-023 | Decachloropentacyclo[5.3.0.0 (2,6).0 (3,9).0 (4,8)]decane-5-one (chlordecone) |
| P061-024 | Hexabromodiphenyl |
| P061-025 | Tetrabromo(Phenoxybenzene) (tetrabromodiphenyl ether) |
| P061-026 | Pentabromo(Phenoxybenzene) (pentabromodiphenyl ether) |
| P061-027 | Hexabromo(Phenoxybenzene) (hexabromodiphenyl ether) |
| P061-028 | Heptabromo(Phenoxybenzene) (heptabromodiphenyl ether) |
| P061-029 | 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin=3-oxide (also known as endosulfan or benzoepin) |
| P061-030 | Hexabromocyclododecane |
| P061-031 | Pentachlorophenol or its salts or esters |

* The underlined NTN Nos. are substances which are newly added to this level.

[Reference] P062 Attached table:

"Industrial Safety and Health Law" manufacturing-prohibited substances

| NTN No. | Environmentally hazardous substances |
|----------|--|
| P062-001 | Yellow phosphor match |
| P062-002 | Benzidine and its salts, formulations containing the same in amounts higher than 1% of their own weights, and others |
| P062-003 | 4-amino diphenyl and its salts, formulations containing the same in amounts higher than 1% of their own weights, and others |
| P062-004 | Asbestos, or the formulation containing the same in amounts higher than 0.1% of their weights, and others |
| P062-005 | 4-Nitro diphenyl and its salts, or formulations containing the same in amounts higher than 1% of their weights and others |
| P062-006 | Bis(chloromethyl)ether, or formulations containing the same in amounts higher than 1% of their weights and others |
| P062-007 | Beta-naphthyl amine and its salts, or formulations containing the same in amounts higher than 1% of their weights and others |
| P062-008 | Gums containing benzene, of which content exceeds 5% or more of the solvent (including diluent) of the gums |

[Reference] P063 Attached table:

"Poisonous and Deleterious Substances Control Law" specified poisonous substances

| NTN No. | Environmentally hazardous substances |
|----------|--|
| P063-001 | Octamethyl pyrophosphoramide |
| P063-002 | 4-alkyllead |
| P063-003 | Diethylparanitrophenyl thiophosphate |
| P063-004 | Dimethylethyl mercaptoethyl triphosphate |
| P063-005 | Dimethyl-(diethylamide-1-chlorcrotonyl)-phosphate |
| P063-006 | Diethylparanitrophenyl thiophosphate |
| P063-007 | Tetraethyl pyrophosphate |
| P063-008 | Monofluoroacetate |
| P063-009 | Monofluoroacetateamide |
| P063-010 | In addition to the poisonous substances set forth in the preceding items, preparations which contain any of the substances set forth in the preceding items and other poisonous substances with extremely poisonous properties which are specified by Cabinet Order. |