

NTN Group
Green Procurement Standards
5th Edition

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NTN Corporation

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- 1 Request for building environmentally hazardous substance control system
- 2 Reporting of no ELV/RoHS 10 substances contained in products to be supplied
- 3 Conducting analysis of ELV/RoHS 10 substances and preparing evidences
- 4 NTN environmentally hazardous substances list

<Form>

- 1 Confirmation sheet for environmental management system
- 2 Check sheet for environmentally hazardous substance control system
- 3 Non-inclusion certification of NTN-prohibited substances
- 4 List of ELV/RoHS 6 substance evidences
- 5 Declaration of containing of NTN-prohibited substances/observation-requisite substances
- 6 Green Procurement Standards Agreement and Company Information Registration Statement

1 Introduction

Pursuing harmony with the global environment as a mission of greatest importance, we, at the NTN Group, persevere in our efforts aiming at earth-friendly business activities.

Although NTN products including bearings and constant-velocity joints have been originally positioned as “environmentally-friendly (eco-friendly)” goods, which may reduce energy loss due to friction, we, not satisfied with status quo, still earnestly work on the research and development for further enhancement of our products to make a more enormous contribution to a worldwide growing tendency toward energy saving.

Furthermore, we continuously improve the environmental management system in accordance with ISO 14001 to reduce environmental loading, and also ask our suppliers to promote business management taking environmental preservation into consideration, as well as to obtain a certificate of compliance with ISO 14001, Eco Stage, or the like from an accredited third party. We help our suppliers obtain the certification of Eco Stage through NTN Technical Service, one of our subsidiary companies, if they desire to do so.

Against this background, as management of environmentally hazardous substances has become increasingly important, as part of global environmental loading reduction, we are proactively advancing with firm steps toward the accomplishment of the first-and-foremost subjects for our green procurement activities: 1) reduction of environmentally hazardous substances contained in NTN products; 2) reduction of environmentally hazardous substances used in the manufacturing process; 3) introduction of the production facilities or technologies capable of reducing environmentally hazardous substances. In recent years, regulations on environmentally hazardous substances, which began in EU, have become global standards, and an increasing number of countries has enforced similar laws and regulations, while requests from customers have also become more complicated, and thus not only we at NTN but also our suppliers are required to strictly manage environmentally hazardous substances throughout a supply chain.

We hope that you, our suppliers, sufficiently understand the importance of these activities and recognize the observance of the provisions of the Standards is a prerequisite for doing business with you and that you aggressively cooperate with our green procurement program.

2 NTN Environmental Policy

We have established our Environmental Policy as described below and work on environmental preservation across all the business areas including procurement accordingly.

■ NTN Environmental Policy ■

Maintaining harmony with the global environment is our most important challenge. The NTN Group has identified pollution control and preservation of our natural capital as priorities of our business operations. Furthermore, we remain committed to developing technologies that contribute to the emergence of a sustainable society in harmony with nature.

1. Developing technology that contributes to prevention of global warming
By developing technologies and innovative products that contribute to energy efficiency and alternative energy generation worldwide, the NTN Group will contribute to the prevention of global warming.
2. Observance of laws and regulations
The NTN Group will observe all relevant environmental laws, regulations, and ordinances. Moreover, we will proactively take steps to comply with requests from our customers, local communities, and other stakeholders.
3. Reducing the environmental impacts of our business operations
The NTN Group remains dedicated to minimizing the environmental impacts of our emissions of CO₂ and restricted substances across all our business operations. We will endeavor to identify and reduce our environmental impacts in both the upstream and downstream (from supplier to customer) branches of our supply chain.
4. Utilizing resources sustainably
The NTN Group will strive to reduce waste as well as our inputs of water, raw materials, and other resources by remaining focused on reducing, reusing, and recycling.
5. Stringently controlling environmentally hazardous substances
The NTN Group will practice green procurement and conduct stringent management of any environmentally hazardous substances used in our products and processes. We remain focused on adopting benign substitutes for any highly hazardous chemical substances we use in our operations.
6. Conserving biodiversity
In cooperation with local communities, the NTN Group will proactively implement forest preservation, biodiversity conservation, and other environmental protection initiatives.
7. Maintaining open communication
In implementing this Environmental Policy, the NTN Group will seek to improve the environmental awareness of all our employees. In addition, we will widely disseminate information on our environmental initiatives and actively promote open communication with the general public.
8. Continuously improving our Environmental Management System
The NTN Group will implement and continuously improve our Environmental Management System in order to enhance our environmental performance.

3 Objectives

NTN accelerates green procurement through our supply chain under partnership with our suppliers to reduce environmental loading associated with NTN products and business activities and provide our customers with the environmentally-friendly goods in order to fulfill social responsibility imposed on us, a business entity.

4 Concept of Green Procurement

We preferentially deal with suppliers having both good “compliance with environmental laws and regulations, environmental protection efforts (obtaining environmental certificates including ISO 14001, etc. and implementation of environmental management)” and good “environmental qualities of delivery products (not containing hazardous substances, etc.)”.

5 Scope

5.1 Intended suppliers

- The suppliers, who supply materials (parts, materials, sub-materials, process materials, packing/packaging materials and production facility) to be incorporated into NTN products, as well as used in the manufacturing process.
- The contractors, who provide NTN with services such as assembly of parts and other various kinds of operations (forging, cutting, grinding, heat treatment, surface treatment, and so on).

5.2 Target items to be supplied to NTN

All the items to be supplied to NTN for incorporation into NTN products, as well as use in the manufacturing process.

Table 1 Concrete example of the items to be supplied to NTN

Category	Description	Concrete example
Parts/materials	Parts/materials, semi-finished items, finished items, grease, etc. incorporated into NTN products.	Steel materials, workpieces, resin materials/parts, rubber materials/parts, adhesive materials, grease, solder, surface treatment (plating, etc.), sensors, printed circuit boards, motors, etc.
Sub-materials*	Rust-preventive oil, paint, ink, permanent markers, etc. to be possibly coated/used on the NTN products before shipping.	Rust-preventive oil, paint, tape, labels, ink, permanent markers, materials to be used for production, etc. to be possibly coated/used on NTN products.
Materials for production	Oil solutions, grinding stones, etc. used in your production (among which are not coated/used on NTN products at the time of shipment)	Heat treatment oil, machining oil (for cutting or grinding), washing agents, solvents, intermediate rust-preventive oils, grinding stones, etc.
Packing/packaging materials	Materials used for packaging parts and materials, etc., at the time of arrival, and materials packaging NTN product at the time of shipment	Corrugated fiberboards, plastic boxes, trays, plastic bags, buffer materials, pallets, wooden frames, tape, binding materials, labels, printing ink, etc.

* The sub-materials to be used by the suppliers shall be managed assuming that they are classified into parts.

5.3 Compliance obligation of procured items

Confirm the table below for the details to be complied with as they vary depending on the category of the procured items.

Table 2 Compliance obligation of procured items

Procured item Category	Compliance items	7.1 Promotion of business management taking environmental preservation into account					7.2 Control of environmentally hazardous substances and information provision										7.3 Other documents to be submitted
		7.1.1 Compliance with environmental laws and regulations	7.1.2 Building up of Environmental Management System (certification acquisition from the authorized third party)	7.1.3 Recognition/reduction of CO2 emissions	7.1.4 Activities for biodiversity preservation	7.1.5 Promotion of water risk management	7.2.1 Compliance with control criteria for NTN environmentally hazardous substances	7.2.2 Provision of information on environmentally hazardous substances contained and their composition	7.2.3 Request for building environmentally hazardous substance control system (Attachment 1)	7.2.4 Prohibition of inclusion of NTN-prohibited substances and submission of non-inclusion certificate	7.2.5 Description of confirmation results of non-inclusion of ELV/RoHS 10 substances			7.2.6 Declaration of containing of NTN-prohibited substances/observation-require substance	7.2.7 Actions taken when detecting ELV/RoHS 10 substances in sampling analysis		
											(Requirement of evidence)						
											Lead, mercury, cadmium, hexavalent chromium	PBB, PBDE	Four types of phthalic acid esters				
Raw materials	Steel material	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Resin, etc.*1	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Other	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Parts	Resin, etc.*1	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Other	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Processing		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Sub materials	Resin, etc.*1	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Other	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Manufacturing process materials	In contact with product	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Not in contact with product	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Equipment Jigs	In contact with product	Resin, etc.*1	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
		Other	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	Not in contact with product	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	/	/	/	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Packaging materials	Resin, rubber	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
	Other	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
Research and development application	Possibility of being provided by customers	Yes	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		No	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	<input checked="" type="radio"/>	/	/	/	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Other		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	/	/	/	/	/	/	/	/	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

*1 Resin, rubber, adhesive/binder, paint, coating, etc.

[Applicability]

- : Applicable
- : Applicable by separate designation by our company
- △: Applicable only to self-supplied materials (including such sub-materials as anti-rust oil, cutting oil, etc.)
- ▲: Applicable to substances prohibited by NTN (for packaging materials, only lead, cadmium, hexavalent chromium, mercury and phthalic acid esters)
- /: Not applicable

[Applicability of providing document/information]

Underline (double line): Documents need to be submitted according to the Standards
Underline (wavy line): Documents to be submitted according to a separate request from us

6 Definition of terms

The Standards define the terms used herein as follows.

6.1 NTN environmentally hazardous substances

- (1) Substances determined by NTN to have an aspect of significantly affecting the global environment and human well-being.
- (2) Substances, for which limitations and/or information such as its use, application, contents, etc. are expected or may be expected to be disclosed in domestic and international regulations, or customer standards.

6.2 Control level

We control NTN environmentally hazardous substances at the following three levels.

6.2.1 I. NTN-prohibited substances

These are the substances which shall not be intentionally contained and unintentionally contained at the higher levels than their threshold in the products to be supplied to NTN.

6.2.2 II. Observation-requisite substances

Substances required to be immediately declared by the supplier in the case where they are intentionally contained or unintentionally contained at the higher levels than their threshold in the products to be supplied to NTN. Substances (SVHC), for which duty of information notification is imposed on the suppliers mainly under the REACH of chemicals.

6.2.3 III. Substances to be reported as requested by NTN

Substances, for which information on the chemicals contained in the products to be supplied is required to be controlled and to be provided when the examination of the chemical contents is requested by NTN.

6.3 Chemical containing in the products

Chemicals containing, i.e. addition in, filling in, mixture in or adhered to parts composing the products or materials to be used for production of the parts (including chemicals containing such as unintended mixture in or adhesion to the products in the manufacturing process).

6.4 Evidence

Documents certifying that the products to be supplied conform to the Standards (analysis data, ingredient list, mill sheet, SDS conforming to JIS Z 7250, non-inclusion certificate of raw material manufacturer, etc.)

Used to mean “the analytical data for certifying the non-inclusion of ELV/RoHS 10 substances” unless otherwise specified.

6.5 Threshold

The maximum allowable concentrations (in laws or the Standards) of the environmentally hazardous substances unintentionally contained in the products, which are computed in material units regarded as homogenous.

6.6 Homogeneous materials

Materials, which cannot be broken down into individual raw materials by mechanical actions such as removal, cutting, crushing, grinding, polishing, etc. (metal alloys, polymer alloys, paint, adhesive agents, ink, plating, etc.) For example, for the rubber seals (rubber + plated steel sheet) for bearings, each of rubber, steel plates, and plated layers is a homogeneous material.

6.7 ELV/RoHS 10 substances

Ten substances including four kinds of phthalic acid esters (DEHP, BBP, DBP, DIBP), which were prohibited under the RoHS Directive from July 22, 2019, added to the six substances (lead, mercury, cadmium, hexavalent chromium and two kinds of specific brominated flame retardant (PBB, PBDE)) whose inclusion has been conventionally prohibited under the ELV Directive and the RoHS Directive.

6.8 Control value

The content ratio of ELV/RoHS 10 substances which is not supposedly exceeded if substances are not contained intentionally and appropriately prevented from entering. When a control value is exceeded in a sampling analysis, the presence of procured items which have values beyond thresholds is suspected depending on analysis errors and variation in procured items.

7 Requirements to our suppliers

We would like to request our suppliers to implement the followings.

7.1 Promotion of business management taking environmental preservation into account

To address a wide variety of environmental problems including global warming, business entities are strongly encouraged to implement business management taking environmental preservation into account. Our suppliers shall work on the following requirements.

7.1.1 Compliance with environmental laws and regulations

When environmental laws and regulations are violated, there is a risk that the production activities are interfered by administrative disposition such as suspension of operations, etc. In September, 2017, there was the topical news that a European bearing manufacturer was forced to stop production due to the disposition of operation suspension for a Chinese metal processing manufacturer for the violation of environmental regulations.

Our suppliers are asked to comply with the environmental laws and regulations of their countries and promptly report to us when administrative disposition, etc., which adversely affects their production activities should be suggested due to the violation of laws and regulations.

7.1.2 Building up of Environmental Management System (certification acquisition from the authorized third party)

We request all of our suppliers to build the Environmental Management System (EMS) and acquire certification from the third party authorized by the authority concerned. Basically, the third-party certification refers to ISO 14001; however, the following third-party certifications may be accepted depending on the business scales of our suppliers.

- Eco Stage (Eco Stage Institute)
- EcoAction 21 (Institute for Global Environmental Strategies (IGES))
- KES (NPO KES Environmental Organization), etc.

The suppliers who have already obtained third-party certifications are requested to maintain, improve and update EMS. The suppliers, who have not yet acquired it, shall commence planning of certification acquisition as soon as possible to successfully achieve.

The suppliers shall submit the following form to NTN with required information filled. We will confirm the progress of EMS building-up based on the submitted information.

<Documents to be submitted/timing of submission>

Documents to be submitted	Timing for submission	Form	Submitted to
Confirmation sheet for environmental management system	<ul style="list-style-type: none"> When requested by NTN Within one month after a change is made to the supplier's management system (Certification acquirement, update, withdrawal) 	Form 1	Main purchasing department

7.1.3 Recognition/reduction of CO₂ emissions

CO₂ emissions reduction is a worldwide critical problem to be solved for prevention of global warming.

Our suppliers shall make best efforts in recognizing and reducing CO₂ emissions generated by business activities and provide the required information as demanded by NTN.

7.1.4 Activities for biodiversity preservation

Recently, against the background that biodiversity has been brought to a worldwide crisis, Japanese government has put “Basic Act on Biological Diversity” into effect and requires business entities to take actions for biodiversity preservation.

Our suppliers shall promote the actions for biodiversity preservation and report the progress of the activities as requested by NTN. For our policy about biodiversity, refer to Section 6 of the NTN Environmental Policy.

7.1.5 Promotion of water risk management

Business entities are required to understand the risks on business continuity by external factors on water resources (floods, droughts, water pollution, restrictions on available water volume, etc.) globally and to take actions to minimize their adverse effects.

We ask our suppliers as well to promote water risk management and report us its situation when so requested. As the water risk assessment tools for the business entities, AQUEDUCT^{*1} of WRI (World Resources Institute) and GLOBAL WATER TOOL^{*2} of WBCSD (World Business Council for Sustainable Development) are publicly available.

*1 <http://www.wri.org/applications/maps/aqueduct-atlas/>

*2 <https://www.wbcsd.org/Clusters/Water/Resources/Global-Water-Tool>

7.2 Control of environmentally hazardous substances and information provision

As regulations for environmentally hazardous substances have been increasingly institutionalized throughout the world, they have more stringent influence on business activities. In Europe, in particular, where ELV Directive, RoHS Directive, and REACH have been put in effect, rigorous control of environmentally hazardous substances (certification for nonuse, information provision, etc.) are required in terms of compliance with laws.

In this context, we have prepared our own list of NTN environmentally hazardous substances (**Attachment 4**) to thoroughly control the entire supply chain. The suppliers shall take the activities for control of environmentally hazardous substances and information provision described below.

7.2.1 Compliance with control criteria for NTN environmentally hazardous substances

The suppliers shall deliver parts, etc, in accordance with the provision “compliance with summary of limitations of use of environmentally hazardous substances in materials, products, and parts (HS-D-SB0001HE)” described in our drawings and purchase

specifications. The suppliers, who have not yet received our drawings and purchase specifications from NTN, shall understand information such as “I. NTN-prohibited substances”, “II. NTN observation-requisite substances,” and “III. Substances to be reported to NTN as required” contained in the list of NTN environmentally hazardous substances (**Attachment 4**) and accordingly, control their parts, etc.; in addition to observe the Standards.

7.2.2 Provision of information on environmentally hazardous substances contained and their composition

The suppliers shall be sure to provide information on contained chemical substances listed in the list of NTN environmentally hazardous substances as requested by NTN (it is not accepted that the suppliers do not disclose such information by assigning it to company secret). The NTN-specified formats (chemSHERPA, JAMA, originally-developed format, etc.) shall be used to provide information. Ingredients accounting for 90 wt% or more of the material composition shall be disclosed because they are necessary for registration in IMDS* as required by automobile manufacturers and automobile-related manufacturers.

* IMDS (International Material Data System)

The system to contain information on materials of the parts composing automobiles and contained substances in a database, which has been built mainly by leading automobile manufacturers in Japan, U.S., and Europe.

7.2.3 Request for building environmentally hazardous substance control system (Attachment 1)

We would like to ask for your efforts in understanding and managing environmentally hazardous substances contained in or adhering to products delivered to our company and construing a system which can guarantee the non-inclusion of NTN-prohibited substances, especially the ELV/RoHS 10 substances.

It should be noted that we will request that the suppliers perform voluntary inspection once a year. In response to this request, the suppliers shall check the status of their environmentally hazardous substance control using the check sheet (**Form 2**) and submit the result to NTN. If any failure in the control status is indicated, NTN may request that you improve the control system and, in some cases, we may visit the suppliers for field investigation. We will elicit cooperation from the suppliers in conducting field investigation.

<Documents to be submitted/submission timing>

Documents to be submitted	Timing for submission	Form	Submitted to
Check sheet for environmentally hazardous substance control system	<ul style="list-style-type: none"> • At start of business • When required by NTN (Once a year in principle)	Form 2	Main purchasing department

7.2.4 Prohibition of inclusion of NTN-prohibited substances and submission of non-inclusion certificate

As for the products to be supplied to us, intentional inclusion of NTN-prohibited substances is prohibited, regardless of their contents, and unintentional inclusion of those substances in amounts higher than the threshold values is prohibited.

We ask our suppliers to submit “Non-inclusion certification of NTN-prohibited substances (**Form 3**)” as a proof of conformity to this requirement.

The applications exempt from RoHS designation are also exempt in the Standards. Since their respective expiration dates are established and continuous reviewing is made, manage the exemptions according to the latest information obtained from the EU’s website, etc.

<Documents to be submitted/submission timing>

Documents to be submitted	Timing for submission	Form	Submitted to
Non-inclusion certification of NTN-prohibited substances	<ul style="list-style-type: none"> • At start of business • When required by NTN (Once a year in principle) 	Form 3	Main purchasing department

7.2.5 Description of confirmation results of non-inclusion of ELV/RoHS 10 substances

Position the non-inclusion of the ELV/RoHS 10 substances as a critical quality attribute, and enter the results of confirmation of non-inclusion in the test result report according to the procedure in **Attachment 2**.

Moreover, although the submission of the evidence which is the basis thereof for each lot is not required, prepare and submit the evidence in accordance with **Attachment 3** and the table below.

As the substances requiring evidence vary depending on the procured item, refer to **Table 2**.

<Documents to be submitted/submission timing>

Documents to be submitted	Timing for submission	Form	Submitted to
Test result report (Record the result of analytical verification)	Every lot	Add in your own form	Product purchasing departments
List of ELV/RoHS 10 substance evidences and their supporting evidences	<ul style="list-style-type: none"> • When required by NTN • At first arrival of new item • At first arrival of process change item 	Form 4	

7.2.6 Declaration of containing of NTN-prohibited substances/observation-requisite substances

In the products to be supplied to us, if it is found that NTN-prohibited substances and declarable essential substances are intentionally contained or unintentionally exceeding the threshold value, declare it immediately and voluntarily.

Be sure to meet this requirement because this declaration is requisite to perform the domestic/international legal duties.

* The substances, which has been known to be contained in parts but not reported to NTN, shall be declared to NTN.

<Documents to be submitted/submission timing>

Documents to be submitted	Timing for submission	Form	Submitted to
Declaration of containing of NTN-prohibited substances/observation-requisite substances	Immediately after it is known that substances are contained in parts	Form 5	Main purchasing department

7.2.7 Actions taken when detecting ELV/RoHS 10 substances in sampling analysis

We at NTN and our customers check for the presence or absence of inclusion of ELV/RoHS 10 substances by the sampling analysis at the time of acceptance of procured items.

Should contents exceeding the control values in the table below be detected in our acceptance analysis, or should inclusion exceeding the standard value specified by our customers in

customer's acceptance analysis be detected, we request that our suppliers clarify the reason and lower the concentration of the contained substances below the control value as necessary.

Table 3 Control values

Applicable substance		Control value (ppm)
1) Lead and compounds thereof (Pb)	Resins	100
	Other	500
2) Mercury and compounds thereof (Hg)		500
3) Cadmium and compounds thereof (Cd)	Resins	20
	Other	75
4) Hexavalent chromium compounds (Cr6+)		500
5) Polybrominated biphenyls (PBB)		500
6) Polybrominated diphenyl ethers (PBDE)		500
7) Di-2-ethylhexyl phthalate (DEHP)		500
8) Butyl benzyl phthalate (BBP)		500
9) Di-n-butyl phthalate (DBP)		500
10) Di-isobutyl phthalate (DIBP)		500

7.3 Other documents to be submitted

Please agree to the NTN Green Procurement Standards initiative and, to clarify the company information and responsibility system of the suppliers, submit the following documents.

<Documents to be submitted/submission timing>

Documents to be submitted	Timing for submission	Form	Submitted to
Green Procurement Standards Agreement and Company Information Registration Statement	<ul style="list-style-type: none"> At start of business When required by NTN Within one month from time of change of described information 	Form 6	Main purchasing department

8 Handling of information

We handle properly personal information on the suppliers in accordance with laws and other norms. It should be noted that in some cases, information on environmentally hazardous substances in products to be procured, etc., are externally published as part of information on our products.

9 Contact

Procurement Management Department, Procurement Headquarters, NTN Corporation
 Phone: +81-6-6449-3598
 Fax: +81-6-6443-1577

Quality Management Department, Quality Management Headquarters, NTN Corporation
 Phone: +81-6-6449-3607
 Fax: +81-6-6443-1578

General Affairs and Environmental Management Department, NTN Corporation
 Phone: +81-6-6449-3517
 Fax: +81-6-6443-2592
 E-mail: kankyoku_kanribu@ntn.co.jp

Division to which products are delivered: Quality Assurance Department, Procurement
Department

10 Supplementary provisions and revision history

The Standards will be brought to operation as of 1st April, 2018.

The Standards may be revised as requested by domestic/international laws or our customers, as well as when state of society is changed. The latest version can be obtained from our website.

[History]

NTN Group Green Procurement Standard 1st Edition 1st March, 2007

NTN Group Green Procurement Standard 2nd Edition 10th December, 2007

NTN Group Green Procurement Standard 3rd Edition 11th January, 2011

NTN Group Green Procurement Standard 4th Edition 1st April, 2012

NTN Group Green Procurement Standard 5th Edition 1st April, 2018

[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.

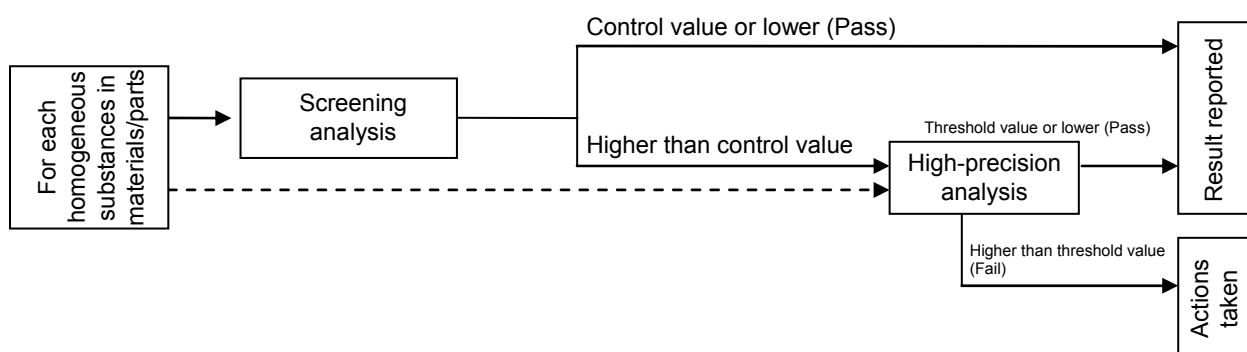


Fig. 1 Analysis flow (When our company separately specifies the method of analysis, follow the instructions)

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
Hexavalent chromium (Cr ⁶⁺)		(3) Atomic absorption spectrometry (AAS)		
Two types of specific brominated flame retardants PBB, PBDE		Diphenylcarbazine absorptiometry	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)	Solvent extraction – Gas chromatography mass spectrometry (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 (O×)		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).	O, x
2) Filled the results of checking of all the composing elements in the column Acceptance.	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	Pentacosaflluorotridecanoic acid	72629-94-8	1,000 ppm (0.1%)
R122	Tricosaflluorododecanoic acid	307-55-1	1,000 ppm (0.1%)
R123	Heptacosaflluorotetradecanoic 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)	271-094-0, 272-013-1	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 21049-39-8, 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 3830-45-3, 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	355-46-4	1,000 ppm (0.1%)
R175	Chrysene	218-01-9 (1719-03-5)	1,000 ppm (0.1%)
R176	Benzo[anthracene]	56-55-3 (1718-53-2)	1,000 ppm (0.1%)
R177	Cadmium nitrate	10325-94-7 (10022-68-1)	1,000 ppm (0.1%)
R178	Cadmium hydroxide	21041-95-2	1,000 ppm (0.1%)
R179	Cadmium carbonate	513-78-0	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> <u>Can be downloaded with the "chemSHERPA molded article data creation support tool (including managed substance list)" on (https://chemsherpa.net/chemSHERPA/tool/)</u> * 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), trilithium 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 thioxo	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

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

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

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

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-triyl)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	Benzo[oxonium] 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

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	Diphenoarsin-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 dizinc 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

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(hexamethylenebicyanoquanide-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 CrO ₇)	13530-68-2

P017-012	Chromic acid (H ₂ CrO 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-stannatetradeca-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-oxisooctadecyl)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-mercaptopropionate)	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

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 dilauryl 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-butenedioate-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-diethylethylamine)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	Diocetyl tin bis(isooctyl maleate)	33568-99-9
P020-069	Diocetyl tin dichloride	3542-36-7
P020-070	Diocetyl tin dilaurate	3648-18-8
P020-071	Diocetyl tin maleate	16091-18-2
P020-072	Diocetyl tin oxide, (Stannane, dioctyloxo-)	870-08-6
P020-073	Diocetyl tin dodecylstannane	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

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

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

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 nitroresorcinatate	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)

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''-Nitritotri(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

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

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

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-toluenesulphonanilide	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 bisnitrate	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, telomer 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-decanediyl)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)TRIBUTYL TIN	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(TRIBUTYL TIN)-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(TRIBUTYL TIN) 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-NITROPHENOXYTRIBUTYL TIN	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	TRIBUTYL TIN 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	TRIBUTYL TIN CHLOROACETATE	5847-52-9
P057-032	Tributyltin cinnamate	27147-18-8
P057-033	TRIBUTYL TIN CYANATE	4027-17-2
P057-034	TRIBUTYL TIN CYANIDE	2179-92-2
P057-035	Tributyltin dimethyldithiocarbamate	20369-63-5
P057-036	TRIBUTYL TIN 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	TRIBUTYL TIN 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	TRIBUTYL TIN METHANESULPHONATE	13302-06-2
P057-046	Tributyltin methoxide	1067-52-3
P057-047	Tributyltin monopropylene glycol maleate	53466-85-6
P057-048	TRIBUTYL TIN NAPHTHENATE	36631-23-9
P057-049	Tributyltin naphthenate	85409-17-2
P057-050	Tributyltin nonanoate	4027-14-9
P057-051	TRIBUTYL TIN O-IODOBENZOATE	73927-93-2
P057-052	TRIBUTYL TIN P-IODOBEMZOATE	73940-88-2
P057-053	Tributyltin sulfamate	6517-25-5
P057-054	TRIBUTYL TIN 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.

To: Main purchasing department

[Form 1] Confirmation sheet for environmental management system

Company name: _____

Division: _____

Written by: _____

Date: _____

1. Acquisition status of the third-party environmental certification (Circle the applicable item.)

1. ISO 14001 certification already acquired

Acquired on: _____, Certification body [_____]

Certificate No*: [_____]

* Attach a copy of your certificate to this sheet.

→ **Entry may be omitted on the next page.**

2. Certification to ISO 14001 is being sought

Expected acquisition date: _____, Certification body [_____]

→ **Entry may be omitted on the next page.**

3. Other third party certification has been obtained or is being sought

[] Eco Stage (Eco Stage Institute)

[] EcoAction 21 (Institute for Global Environmental Strategies (IGES))

[] KES (NPO KES Environmental Organization)

Certification [_____] [Certification obtained, certification being sought]

Acquired on: [_____, _____] Expected acquisition date: [_____, _____]

Certification body [_____] Certificate No.* [_____]

* Attach a copy of your certificate to this sheet.

→ **Entry may be omitted on the next page.**

4. Third-party certification has not been obtained or sought

→ **Fill "Current state of environmental preservation activities" on the next page.**

2. Current state of environmental preservation activities (Entry may be omitted if you have filled 1. to 3. on the previous page.)

(Yes: [○], No: [×], Not applicable: [-])

[Corporate philosophy and policies]	
(1) We have a corporate philosophy of environmental preservation.	[]
(2) Having established our environmental policy, we set continuous improvement and pollution prevention.	[]
(3) We pledge to comply with legal control as is provided in the environmental policies.	[]
(4) All the employees at our company are devoted to thoroughly implementing environmental policies and the policies are available to the third party.	[]
(5) We fully understand the requirements of the NTN Group Green Procurement Standard and are implementing them throughout the company.	[]
[Objectives and goals]	
(6) We set goals toward environmental preservation.	[]
(7) We clarify organizations and persons responsible for achieving the environmental goals.	[]
(8) We have an implementation plan to achieve the environmental goals.	[]
[Environmental assessment/system]	
(9) We control/assess air pollution and report the result to the top management; accordingly, we make every effort to improve the current state of environment.	[]
(10) We control/assess water pollution and report the result to the top management; accordingly, we make every effort to improve the current state of environment.	[]
(11) We control/assess noise/vibration and report the result to the top management; accordingly, we make every effort to improve the current state of environment.	[]
(12) We control/assess waste disposal and report the result to the top management; accordingly, we make every effort to improve the current state of environment.	[]
(13) We control/assess energy consumption (electricity, gas, fuel, etc.) and report the result to the top management; accordingly, we make every effort to improve the current state of environment.	[]
(14) We use no NTN-prohibited substances in our establishments.	[]
(15) A product assessment system is in place for environmental preservation.	[]
(16) A risk management system capable of coping with emergencies, if any, is in place.	[]
(17) An internal environmental audit system is in place.	[]
(18) A document management system is in place.	[]
[Education/information service]	
(19) Environmental education for employees is implemented.	[]
(20) In particular, a list of persons engaged in the work with possible significant environmental impact is created and the education and training are implemented.	[]
(21) Information on environmental preservation is continuously provided to employees.	[]

To: Main purchasing department

[Form 2] Check sheet for environmentally hazardous substance control system

Supplier code:	Checked on: _____, _____
Supplier name:	Person in charge: _____
Address:	Checked by: _____

Achievement rate	100%
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0. Internal use of ELV/RoHS 10 substances		
0	Do you use finished products, parts, materials, sub-materials process materials and/or packing/packaging materials (regardless of your customers or usages)?	(1) _____ (Circle either YES or NO)
		[If you answered YES] Substance(s): _____ Application: _____ Are they involved in production of product delivered to NTN? YES/NO

[Scoring method]
 Scoring range: Requirements 1. to 5.
 Distribution of points: Priority item 2 points x 10 questions, normal item 1 point x 10 questions (up to 30 points)
 Achievement rate = total score ÷ highest point (excluding non-target) x 100 (rounded off to the first decimal place)
 [Acceptance criteria]
 0. When (1) is yes: Achievement rate of 80% or higher is acceptable
 0. When (1) is no: Achievement rate of 60% or higher is acceptable

Double underline: Important item

Enter "In progress: O" or "Deficiency found: x" or "Not applicable: -" in assessment column

Requirements		Items to be checked		Determination criteria		Assessment	Specific activities in operation, challenges, etc.
1. Definite definition of in-house product supply chain							
1.1	We control procurement parts, materials, and sub-materials (hereafter, simply referred to as procurement products).	(1)	Do you manage the list of all the procurement products so as to recognize individually?	We manage the list in the form of paper or electronic data.			
		(2)	Do you have the list of persons in charge of environmentally hazardous substance control over all the procurement products?	Same as above			
1.2	We have definitely defined the supply chain to ensure that procurement products comply with the provisions (laws, ordinances, agreements, and NTN requirements) concerning environmentally hazardous substance control.	(3)	To comply with the environmentally hazardous substance regulations, is the supply chain clear, including the secondary and further suppliers?	n-order suppliers recognize the next (n+1) suppliers.			
		(4)	Do you have the list of persons at the above suppliers in charge of environmentally hazardous substances?	n-order suppliers recognize the person in charge at the next (n+1) suppliers.			
2. Definite definition of requirements to suppliers							
2.1	We have defined the requirements for environmentally hazardous substance control to the suppliers.	(5)	Do you have defined requirements for environmentally hazardous substance control to the suppliers and the provisions and standards concerning the practical method for implementing them?	We have documented them in the form of paper and electronic data.			
2.2	We give the instructions for stringent management pertinent to the provisions concerning environmentally hazardous substances to the suppliers.	(6)	Have you informed of the policies of control, reduction, and change of environmentally hazardous substances to the suppliers through a presentation meeting or written document?	We have the materials delivered to the suppliers and the minutes of the policy presentation meeting.			
		(7)	Do you give instructions for nonuse of environmentally hazardous substances for each procurement product in terms of drawings, purchasing specifications, etc?	We specify nonuse of environmentally hazardous substances in all the drawings and procurement specifications.			
2.3	We confirm the suppliers' environmentally hazardous substance control system.	(8)	Do you have defined procedures for confirming the suppliers' environmentally hazardous substance control system (including process investigation)?	We have documented them in the form of paper and electronic data.			
		(9)	Do you have obtained the results of confirmation of the suppliers' environmentally hazardous substance control system?	We have the record of the results of confirmation of suppliers' control system in the form of paper or electronic data.			
3. Stringent management for suppliers' procurement substances							
3.1	We have defined the acceptance criteria for environmentally hazardous substances contained in the procurement products.	(10)	Do you have defined rules and standards stipulating the acceptance criteria in accordance with the provisions concerning environmentally hazardous substances, which is applicable at product delivery?	We have documented them in the form of paper and electronic data.			
3.2	We obtain the certificate of nonuse of ELV/RoHS 10 substances issued by the suppliers.	(11)	Do you obtain the evidence of nonuse of ELV/RoHS 10 substances for each procurement product from the supplier?	We have obtained any form of evidence of nonuse certificate (evidence list, evidence, etc.)			
3.3	We can analyze ELV/RoHS 10 substances contained in the procurement products.	(12)	Do you confirm the analysis of ELV/RoHS 10 substances in accordance with analytical standard of ELV/RoHS 10 substances (including an external analysis organization)?	We have the documented results of analysis in the form of paper or electronic data.			
4. Establishment and maintenance of environmentally hazardous substance control system							
4.1	We have established our own (Technical, Manufacture, and Quality Assurance Departments) environmentally hazardous substance control system to monitor nonuse of ELV/RoHS 10 substances and prevent their mixture in the products.	(13)	Do you report the current state of environmentally hazardous substance control at the meeting, etc., to your management and employees and make efforts to improve.	We have the minutes of the meeting and the records of the results and progress of improvement activities.			
		(14)	Do you assess compliance with nonuse of ELV/RoHS 10 substances in accordance with the standard at the designing and production preparation stages?	We have the records of assessment in form of paper or electronic data.			
		(15)	Do you monitor nonuse of ELV/RoHS 10 substances in accordance with the standard when making changes to the process (materials, sub-materials, suppliers, etc.)?	We have the records of assessment in form of paper or electronic data.			
		(16)	Do you conduct internal audit of the environmentally hazardous substance control system regularly?	We have the records of assessment in form of paper or electronic data.			
4.2	We have defined the measures to be taken in case of detection of ELV/RoHS 10 substances in the products.	(17)	Do you have the rules concerning the measures to be taken in case of detection of ELV/RoHS 10 substances higher than their thresholds in the products?	We have the rules in the form of paper or electronic data (Acceptance Standard, Summary, etc). We also have the records of the measures taken when ELV/RoHS 10 substances were detected, if any.			
5. Assurance of nonuse of environmentally hazardous substances in the products to be supplied to NTN							
5.1	We can submit the certificate (evidence) of nonuse of ELV/RoHS 10 substances as requested by our customers.	(18)	Do you have defined provisions concerning the procedure for submitting the evidence or report of nonuse of ELV/RoHS 10 substances to your customers?	We have documented them in the form of paper and electronic data.			
		(19)	Can you submit the results of analysis of ELV/RoHS 10 substances as requested by NTN?	We have ever submitted any evidence to NTN or other customers.			
5.2	We can report the substances (constituents) contained in the products using the IMDS/JAMA data sheet.	(20)	Can you submit the report according to the NTN requirement (every constituent of which content is 90% or more shall be disclosed) in the NTN-defined format?	We have ever submitted the record according to the NTN requirements. (If you have never, the reports to your customers are permissible.)			

To: Main purchasing department

Date: _____

[Form 3] Non-inclusion certification of NTN-prohibited substances

Company name: _____ Company seal

Department/title: _____

Person in charge: _____

Regarding all the deliveries to NTN Group, we guarantee that “NTN Environmentally Hazardous Substances [I. NTN Prohibited Substances]” listed in Attachment 4 of NTN Group Green Procurement Standards (Fifth Edition) have not been intentionally added and are within the threshold values, including impurities and variations.

We also guarantee that the ELV / RoHS 10 substances are within the threshold values with the evidences (analysis data), and that the evidences which have been already submitted to your company are valid. Should any prohibited substance(s) are detected in violation of the mentioned above assurance and NTN Group suffer damage, we will take measure for your damage in good faith.

[ELV/RoHS 10 substances and their thresholds]

1) Lead and its compounds (Pb)	Threshold	1000 ppm
2) Mercury and its compounds (Hg)	Threshold	1000 ppm
3) Cadmium and its compounds (Cd)	Threshold	100 ppm
4) Hexavalent chromium compounds (Cr ⁶⁺)	Threshold	1000 ppm
5) Polybrominated biphenyls (PBB)	Threshold	1000 ppm
6) Polybrominated diphenyls ether (PBDE)	Threshold	1000 ppm
7) di-2-Ethylhexyl phthalate (DEHP)	Threshold	1000 ppm
8) Butyl benzyl phthalate (BBP)	Threshold	1000 ppm
9) di-n-Butyl phthalate (DBP)	Threshold	1000 ppm
10) di-Isobutyl phthalate (DIBP)	Threshold	1000 ppm

* As for the packaging materials, the total amounts of Pb, Hg, Cd and Cr⁶⁺ is 100 ppm or lower, and the total amount of phthalates are 1000 ppm or lower.

* The materials and applications excluded in ELV Directive and RoHS Directive are excluded.

To: Product purchasing department

Prepared on: _____,
 Company name: _____
 Division: _____

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

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

Product No./name											
Composing elements											
Material name											
Report No.											
Purchasing method											
Supplier											
Target environmentally hazardous substances (measured value, 3σ is expressed in ppm)	Lead	Measured value									
		3σ									
		Measuring method									
	Mercury	Data source									
		Measured value									
		3σ									
	Cadmium	Measuring method									
		Data source									
		Measured value									
	Hexavalent chrome	3σ									
Measuring method											
Data source											
PBB	Measured value										
	3σ										
	Measuring method										
PBDE	Data source										
	Measured value										
	3σ										
DEHP	Measuring method										
	Data source										
	Measured value										
BBP	3σ										
	Measuring method										
	Data source										
DBP	Measured value										
	3σ										
	Measuring method										
DIBP	Data source										
	Measured value										
	3σ										
Acceptance (O×)											

Check before submission

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

To: Main purchasing department

[Form 5] Declaration of containing of NTN-prohibited substances/observation-requisite substances

Date	
Company name	
Dept.	
Name	

[1] Information on containing of NTN-prohibited substances/observation-requisite substances

(If no space is left for adding information, attach another sheet with further information described.)

	Information on contained substance			Part information				Content/part		Content/homogeneous material		
	NTN No.	Substance	Content a (g)	NTN class	NTN part No.	NTN part name	Your part model No.	Part weight b (g)	Content % a/b (%)	Homogeneous material	Homogeneous material weight c (g)	Content % a/c (%)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												

* Fill up to four significant figures.

[2] Reason/cause for inclusion

[3] Changes scheduled in future

Date: _____

To: Main purchasing department

[Form 6] Green Procurement Standards Agreement and Company Information Registration Statement

1. Agreement to Green Procurement Standards

We understand the details established in NTN Green Procurement Standards (NTN G 001), and agree to compliance with the requirements.

Company name: _____

Responsible person: _____ Stamp

2. Company information

(1) Information of delivered items (Check items used, contained or adhered.)

Resin Rubber Plating Solder Paint Adhesive Grease

(2) Company information

Item		Your company	Manufacturer (if you are a trading company)
Name of your company / business establishment			
Address			
Responsible person	Dept./title		
	Name		
	e-mail		
Contact person in charge	Dept./title		
	Name		
	TEL		
	FAX		
	e-mail		

* If your company is a trading company, register the responsible person or person in charge from the manufacturer as well. If your company deals products of more than one manufacturer, submit this form for each manufacturer, or create a separate list and attach to this form.

(However, if your company is providing the technology and/or quality service, provide your company name only.)

* If manufacturing is conducted in multiple locations in your company, submit this form for each business site, or create a separate list and attach to this form. (However, if you have a department which oversees multiple business sites, provide that department only.)