ALPS ELECTRIC CO., LTD.

Green Procurement Standards

(Appendix)

Friendly to people, friendly to nature.

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ALPS ELECTRIC CO.,LTD.

CONTENTS

Explanation and procedure of self-evaluation sheet for supplier of environmental management [Ver.3.0]

1. Explanation and procedure

This check sheet is prepared by Alps Electric for your submission in accordance with the action item list in a tool prepared by the Environmental Standardization Working Group of the JEITA Material Committee to standardize environmental audits.
It explains operation and the making procedure of this seat.

2.Definition of Terms

(1) Sub-contractor

Manufacturer who produces goods in accordance with all manufacturing details decided by the client, such as final specifications, designs to meet final specifications, material selection, production method, and inspection method

(2) Supplier

Manufacturer who produces goods in accordance with all manufacturing details decided on their own, such as designs to meet final specifications, material selection, production method, and inspection method

(3) Mixed production

Inclusion of a substance may be prohibited in some parts/products by laws, customer requirements, etc., but the same substance may be allowed in other parts/products in a different production category. Mixed production refers to a case in which such parts/products subject to different legal standards are produced in the same factory, production line, etc.

(4) Prohibited substances
Substances banned from use in products and parts by laws, customer requirements, etc.

(5) Substance (chemical substance)

A chemical element or compound that either exists in nature or is obtained via a manufacturing process. A substance includes impurities related to manufacturing processes, and additives required for maintenance of stability. Solvents that can be separated without affecting the stability of the single chemical substance or without changing the composition, are excluded from this definition.
Examples: Lead oxide, nickel chloride, benzenes, etc.

(6) Preparation (mixture)
A mixture intentionally comprising two or more chemical substances.
Examples: Paints, inks, solders prior to use, adhesives, alloys, etc.

(7) Article (product formed into a shape)

An item of specific shape, appearance, or design provided during manufacture which determines functions in final use at a level beyond that provided by its chemical composition.

[Reference 1] TSCA Definition

The United States' Toxic Substances Control Act (TSCA) refers to an 'article' as a 'product' or 'goods', and defines an 'article' as an item that:

- Is formed into a specific shape or design during manufacture,
- Has end use functions dependent in whole or in part upon its shape or design during end use,
- Has either no change of chemical composition during its end use, or only those changes of composition which have no commercial purpose separate from that of the article.
- Fluids or particles are not considered articles regardless of their shape or design.

Examples: Molded objects such as personal computer keyboards and main unit.

(8) Subsidiary materials, auxiliary materials
Subsidiary materials and auxiliary materials that are used in production, but not managed by means of the product's bill of material (B/M or BOM) . They remain in finished products.

Examples: PP band, grease, adhesive, tape, solder, ink used for part packaging material, paint, label, printing on label, ink for writing, ink ribbon, marker ink, printer ink, etc.

3.Evaluation Criteria

(1) Determination of Frameworks Applicable to Your Unit Processes

Based on the Required Level in the Action Item List, select from management frameworks I through VII that are applicable to your company's unit processes. If none of the frameworks are applicable, clarify the reasons.

(2) Evaluation for Each Action Item

Regarding whether the systems for managing chemical substances in products are properly constructed and operated, evalution is carried out for each Action Item and Action Details according to the following four levels based on the Required Level.

Conforming: When there are both appropriate systems (rules) for fulfilling the Required Level and activities (implementation) based on the systems (rules), then it is deemed "Conforming." The results of systems (rules) and activities (implementation) must be verfied objectively either through documentation or records.

Partial conformance:When there are appropriate systems (rules) for fulfilling the Required Level but the activities (implementation) are insufficient or partially performed, or when activities (implementation) for fulfilling the Required Level are performed but the systems (rules) are insufficient or partially stipulated,
Or, even when you are doing a part of the task, fill in "Partial conformance".
then it is deemed "Partial conformance" The results of systems (rules) and activities

Non-Conforming: "Nonconforming" should be applied if the conditions below are met.
There is no rule (system) to meet the required level; there is no task (operation) based on the rules; or a critical accident occurred due to the cause related to the system in this item but no corrective actions have been taken.

Not Applicable:When the Required Level does not apply to management within the company, then it is deemed "Not Applicable." For example, if there is no design department in the firm, then 3.1: Design/Development in the "Action items" in the "Action Item List" is deemed not applicable.

Table 1: List of Evaluation Criteria

	Systems for Fulfilling the Action Details(Rules)	Activities for Fulfilling Action Details (Implementation)
Conforming	0	0
Partial conformance	0	#
	#	0
	0	x
	x	0
	#	#
	#	x
	x	#
Non-Conforming	x	x

0：Required Level is satisfied
#: Some actions are performed but partially insufficient
x: Required Level is not satisfied

(3) Total Evaluation

When the criteria below is satisfied based on the evaluation of Action Items and Action Details, it is deemed as "passed."

1)Passed: All the items in the "implementation items" and "implementation content" are decided to be "conforming", or there is no "nonconforming".
However, regarding items of "improvement is required", there is an entry in the space for an improvement plan (or an improvement plan is attached).

2) Scoring of self-evaluation sheet for a supplier
Scoring of "Self-evaluation sheet for a supplier" should be done by following the procedures below. Ranking is to be given by the rules described in the table 2 based on the grade after calculating obtained points by the formula described later.

Based on the Required Level of the "Action Item List," the scores are as follows: "Conforming" = 3 pts., "Partial conformance" = 1 pts., "Non-Conforming" = 0 pts. The points are added to calculate the total score. When the Action Items or Action Details are not applicable to the company's management, the relevant column shall be left blank. Because there are 23 items in total, when all Required Levels are "Conforming," the full marks shall be 69 points. Since the full marks change when there are Not Applicable columns, the full marks are converted into 100 points using the following method.

$$\frac{\text{Actual score}}{\text{Number of relevant columns} * 3} * 100 = \text{Converted into full marks of 100 points (Evaluation points)}$$

When83 items are applicable among the 80 Required Level items and the score is 200 points:

$$\frac{200}{80*3} * 100 = \frac{200}{240} * 100 = 83 \text{ points}$$

Note: The evaluation points above do not indicate a passing mark for the total evaluation. The total evaluation is determined by taking the conditions for "Non-Conforming" and "Partial conformance" into account.

Table 2: Ranking based on the grade

Rank-A	the grade should be 100 without nonconformity
Rank-B	80 to 99 without nonconformity and with corrective action plans
Rank-C	50 to 79 without nonconformity and with corrective action plans
Rank-D	less than 49 points or with nonconformity

4. Procedure for preparation

Procedure-(1):
For each required level, look for X and O in the column of management frameworks (O: it is applicable to you: automatically displayed) and if there is at least one pair of consistent items (X = O), follow the rules described in Section 5 to make judgment and select an item in the pull-down list (if there no pair, it should be considered as "not applicable").
If you select manual processing, circle one of the sentences below.
"Conforming" "Partial conformance" "Non-Conforming" "Not Applicable"

Procedure-(2):
Fill in the facts verified in an objective manner with a document name if any in the space for "Evidence".
Every time you select "not applicable", fill in the reason for it in detail to the allowable extent.
Note: if you attach a copy of document as an evidence of objective verification, give the document a number for reference and fill in the number in the space for "Evidence".

Procedure-(3):
In the space of "Score", the point is displayed after it is calculated automatically according to the judgment result for each requirement level as described in Procedure-(1).
Note: scoring system: when the judgment result is "conforming", the point is 3, when it is "Partial conformance", it is 1, and when it is "non-conforming", it is 0. If it is not applicable, nothing should be entered in the space.

Procedure-(4):
Total value is calculated (There is no display). Please calculate total value at longhand.
The full marks value in case of all the correspondences of the item (When evaluating it) becomes 69 points.
This total value is made a molecule, and the integral value in which 100 values in which "Values three times the graded number of items" is assumed to be a denominator are multiplied is assumed to be .
"Points in evaluation"

Procedure-(5):
It judges by automatic calculation based on given criterion, and the rank is displayed in "Rank" column.
Please fill in the rank on the rank column at longhand.

Note: When the judgment result is "Partial conformance",it will display "Blank column in the improvement plan"if all the improvement plans are not filled in.
Please confirm all the improvement plans are filled in and check that A, B, C, and D are displayed in "Rank" column.

Procedure-(6):
If there is either "Partial conformance" or "nonconforming", a corrective action plan should be entered in the column of "Improvement Plan", and then select a result of the plan from the pull down menu for the column for "Judgment after Plan" in the same way as the procedure-(1). The space for the score after the plan will have the result automatically in the same way as the procedure-(3).
In case of manual processing, enter the score following the scoring system described in the procedure-(3).

End of explanation

Date / /

Supplier's Name : (Your company's name)

Supplier's code :

Company's Name *2: (Manufacturer)

Division's name *3:

Self-evaluation sheet for supplier of environmental management (Ver.3.0)

Alps Electric requests its suppliers to take actions according to the action item list described in a tool prepared by the Environmental Standardization Working Group of the JEITA Material Committee to standardize environmental audits.
Please refer to "Guidelines for Management of Chemical Substances in Products" and implement selfchecking about your green procurement status by filling in the self-evaluation check sheet in the appendix.
When you fill in the self-evaluation sheet, refer to the entry method in the another page of the "Explanation and procedure".

* Indicate all the standards that you are certified to by changing ☐ to.

☐ ISO14001	Date of Original Approval : / / [D/M/Y]	Date of Last Revision : / / [D/M/Y]	Certification body:	Registration NO:
☐ ISO9001	Date of Original Approval : / / [D/M/Y]	Date of Last Revision : / / [D/M/Y]	Certification body:	Registration NO:
☐ ISO/TS16949	Date of Original Approval : / / [D/M/Y]	Date of Last Revision : / / [D/M/Y]	Certification body:	Registration NO:

☐ The certifications mentioned above have not been acquired.

* Please fill in the date on which the supplier completed the self-evaluation sheet. (Completion date: / / [D/M/Y])

*1: This check sheet is prepared by Alps Electric for your submission in accordance with the action item list in a tool prepared by the Environmental Standardization Working Group of the JEITA Material Committee to standardize environmental audits.
*2: Enter the name of the company subject to this self-evaluation.
(If you are a manufacturer, enter your name.) (If you are a trading company, enter the manufacturer's name who actually manufactures the products to be delivered to)
*3: Enter the name of the factory subject to this self-evaluation.

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No.	Question	Self-audit result	Evidence/document names/others					
1. Policy		(1)	Do policies, etc. incorporate approaches (compliance with laws, customer requirements, etc.) that are approved by top management and related to the management of chemical substances in products?		Enter the names of relevant records.	1. Policy documents (top management) that imply the management of chemical substances in products [Viewpoint of verification] (1) Do policies, etc. incorporate approaches (compliance with laws, customer requirements, etc.) that are approved by top management and related to the management of chemical substances in products?				
		(2)	Are these policies conveyed to related departments		Enter the names of relevant records.	2. Records of communicating (1) above Examples: bulletin boards in the company, policy cards, website, etc. [Viewpoint of verification] (2) Are these policies conveyed to related corporate units?				
		(3)	Are the policies reviewed and updated at the timing of revisions to legislation or requirements made by customers?		Enter the names of relevant records.	3. Records of policy reviews made according to revisions to legislation or customer requirements [Viewpoint of verification] (3) Are the policies reviewed at the timing of revisions to				
		(4)	Are there documents that set forth procedures for conducting (1) to (3) above?		Enter document names, document	4. Documents describing the establishment of policies [Viewpoint of verification] (4) Are procedures for implementing (1) to (3) above determined?				
2. Planning										
2.1 Definition of Management Criteria		(1)	Do you identify chemical substances subject to the management of chemical substances in products and their management criteria (prohibitions, restrictions, content control, etc.)?		Enter the names of relevant records.	1. Management criteria that specify substances subject to the management of chemical substances in products (list of in-house control substances/substances managed as per customer requirements) [Viewpoint of verification] (1) Are chemical substances subject to management in products and their management criteria (prohibitions, restrictions, content control, etc.) clarified?				
		(2)	Are the latest legislation, industry criteria, and customer requirements studied and reflected on your management criteria?		Enter the names of relevant records.	2. Records of reflecting the latest legislation, industry criteria, and customer requirements on company's management criteria (e.g., revision history) [Viewpoint of verification] (2) Are the latest legislation, industry criteria, and customer requirements studied and reflected on company's management criteria? *The latest status need not be refrected on the criteria when the substance in products is judged to have no inclusion based on scientific grounds.				
		(3)	Are the management criteria conveyed to related departments?		Enter the names of relevant records.	3. Records of communicating (1) above Examples: records of circulating the management criteria, publication on the intranet [Viewpoint of verification]				
		(4)	Are there documents that set forth procedures for conducting (1) to (3) above?		Enter document names, document	4. Documents describing the establishment of criteria for the management of chemical substances in products [Viewpoint of verification] (4) Are there documents that set forth procedures for conducting (1) to (3) above?				
2.2 Definition of Scope of Management		(1)	Are organizations, products, constituent materials, plants & processes, business, etc. clarified as the scope of management of chemical		Enter document names, document numbers, item names, and revision numbers for 2 questions.	1. Documents describing the scope of management of chemical substances in products [Viewpoint of verification] (1) Are organizations, products, constituent materials, plants & processes, business, etc. clarified as the scope of management of chemical substances in products? *It is acceptable to clarify out of the application scope. (2) Is the scope of application extensive enough to satisfy customer requirements? *The scope of application should include manufacturing plants, processes, suppliers, and sub-contractors.				
		(2)	Is the scope of management of chemical substances in products extensive enough to satisfy customer requirements?							

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No.	Question	Self-audit result	Evidence/document names/others					
2.3 Establishment of Objectives & Planning for Implemented Processes		(1)	Do you establish objectives and plans related to the management of chemical substances in products?		Enter the names of relevant records for 2 questions.	1. Records of objectives and plans [Viewpoint of verification] (1) Are objectives and plans established regarding the management of chemical substances in products? *When a system for the management of chemical substances in products is already established, it is acceptable to have objectives and plans drawn up for its maintenance and continuation. (2) Are the objectives and plans revised as necessary? *Records must have the latest dates.				
		(2)	Are the objectives and plans revised as necessary?							
		(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document numbers, item names, and revision numbers.	2. Documents describing the need to establish objectives and plans related to the management of chemical substances in products [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting (1) to (2) above?				
2.4 Definition of Organizational System, Responsibility & Authority		(1)	Are organizations and roles defined clearly regarding the management of chemical substances in products?		Enter the names of relevant records.	1. Records that clearly define organizations and roles regarding the management of chemical substances in products (e.g., organizational chart) [Viewpoint of verification] (1)Are organizations and roles defined clearly regarding the management of chemical substances in products? *Are there clearly appointed divisions to draw up management criteria and to evaluate substance inclusion in products?				
		(2)	Are there documents that set forth procedures for conducting (1) above?		Enter document names, document numbers, item names, and revision numbers	2. Documents describing the need to define organizations and roles regarding the management of chemical substances in products [Viewpoint of verification] (2) Are there documents that set forth procedures for conducting (1) above?				
3. Implementation & Management										
3.1 Design and Development										
3.1.1 Design for Manufacture of Substances/Preparations		(1)	Do you verify the designed manufacturing process which can be assured that final products satisfy your managelment criteria of chemical substances ?		Enter the names of relevant records.	1. Records of judgment made during product/process design that products satisfy management criteria in the product state (e.g., results of analysis made in the design/development phase) [Viewpoint of verification] (1)Does the company verify that designed manufacturing processes satisfy management criteria and that products satisfy the criteria in the product state? *Purchasing and procurement conditions, manufacturing processes, manufacturing conditions, and inspection and shipping conditions, etc. must be determined such as to satisfy management criteria for the product, and in consideration of chemical substances in raw materials and subsidiary materials, and chemical substances added, created or removed in processes.				
		(2)	Do you request suppliers, as necessary, to comply with your management criteria by means of drawings, specifications, etc.?		Enter the names of relevant records.	2. Records (drawings, specifications, etc.) of requests made to suppliers to comply with management criteria [Viewpoint of verification] (2) Does the company request suppliers to comply with management criteria, as necessary by means of drawings, specifications, etc.?				
		(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	3. Documents describing the checking of compliance with management criteria in the design and development phases [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting				

Action Items		Audit Questions			Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
	No.	Question	Self-audit result	Evidence/document names/others					
3.1.2 Design for Manufacture of Articles Using Substances/Preparations	(1)	Do you design products and processes, considering changes to the concentrations or types of chemical substances in processes based on logical data?		Enter the names of relevant records.	1. Records of judgment made during product/process design that products satisfy management criteria in the product state (e.g., results of analysis made in the design/development phase) [Viewpoint of verification] (1) Does the company design products and processes, considering changes to the concentrations or types of chemical substances in processes based on logical data? *When solder, glue, grease, ink, etc. are used				
	(2)	Do you request suppliers, as necessary, to comply with your management criteria of chemical substances by means of drawings, specifications, etc.?		Enter the names of relevant records.	2. Records (drawings, specifications, etc.) of requests made to suppliers to comply with management criteria [Viewpoint of verification] (2) Does the company request suppliers to comply with the management criteria, as necessary, by means of drawings, specifications, etc.?				
	(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	3. Documents describing the checking of compliance with management criteria in the design and development phase [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting (1) to (2) above?				
3.1.3	(1)	Do you verify that parts, materials, and subsidiary materials constituting each designed product satisfy management criteria of chmical substances?		Enter the names of relevant records.	1. Records of verification performed during design to ensure that parts, materials, and subsidiary materials constituting each product satisfy management criteria [Viewpoint of verification] (1) Does the company verify that parts, materials, and subsidiary materials constituting each product satisfy management criteria?				
	(2)	Do you request suppliers, as necessary, to comply with management criteria by means of drawings, specifications, etc.?		Enter the names of relevant records.	2. Records (drawings, specifications, etc.) of requests made to suppliers to comply with management criteria [Viewpoint of verification] (2) Does the company request suppliers to comply with management criteria, as necessary by means of drawings, specifications, etc.?				
	(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	3. Documents describing the checking of compliance with management criteria in the design and development phase [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting (1) to (2) above?				
3.2 Design and Development									
3.2.1 Verification and Acquisition of Chemical Substances in Products Information	(1)	Do you examine information on chemical substances in purchased parts and materials?		Enter the names of relevant records for 2 questions.	1. Records of examination objects and results (list of examination objects and results) [Viewpoint of verification] (1) Does the company examine information on chemical substances in purchased parts and materials? *Check if actions are taken for parts and materials not examined yet. (2) Is examination conducted without omissions within the scope of management of chemical substances in products? *If exception from examination are made, the reason must be confirmed. *Both subsidiary and auxiliary materials should be subject to examine.				
	(2)	Do you examine all chemical substances without omissions within the scope of management of chemical substances in products?							
	(3)	Does examinations include inclusion/no inclusion of substances, contained amount and concentration, use, etc.?		Enter the names of examination forms and describe the examination method for 2 questions.	2. Records of examinations on individual parts and materials Examples: JGP file, AIS, each company's original examination form, MSDSplus, composition list, certification of nonuse, etc. [Viewpoint of verification] (3) Is examination conducted without omissions within the scope of management of chemical substances in products? (4) Does the company make sure that all the information in (3) is recorded without omissions? *When inadequacy is found, resubmission should be requested.				
	(4)	Do you make sure that all the information in (3) above is recorded without omissions?							
	(5)	Is each part/material checked for conformity with management criteria?		Enter the names of relevant records.	3.Records of checking if each part/material complies with management criteria (examination result list) [Viewpoint of verification] (5) Is each part/material checked for conformity with				

Action Items	Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
	No.	Question	Self-audit result	Evidence/document names/others					
	(6)	Is each product checked for conformity with management criteria?		Enter the names of relevant records.	4. Records of checking if each product complies with the criteria (list of evaluation results by product) [Viewpoint of verification] (6) Is each product checked for conformity with managemen				
	(7)	Do you count the data on chemical substances by each products units?		Enter the names of relevant records.	5. Records of counting result on chemical substances in products [Viewpoint of verification] (7) Do you count the data on chemical substances by each products units?				
	(8)	Are there documents that set forth procedures for conducting (1) to (7) above?		Enter document names, document	6. Documents describing the procedure for acquiring and verifying information on chemical substances in products [Viewpoint of verification] (8) Are there documents that set forth procedures for conducting (1) to (7) above?				
3.2.2 Verification of Supplier Management Status	(1)	Do you require suppliers to perform the "management of chemical substances in products"?		Enter the names of relevant records.	1. Records of requests made to suppliers (e.g., records of handing out green procurement standards and supplier evaluation sheets) [Viewpoint of verification] (1) Are suppliers required to perform the "management of chemical substances in products"? *The "management of chemical substances in products" refers to a system for applying the appropriate management of chemical substances in products in each stage of purchasing, manufacture, and sales. Example: "Guidelines for the Management of Chemical Substances in Products" issued by JGPSSI and JAMP *When some suppliers are exempted from the requirement, the reason and action to be taken for them should be clarified.				
	(2)	Do you evaluate new suppliers?		Enter the names of relevant records for 5 questions.	2. Records of supplier evaluation (list of evaluation results, individual evaluation records) [Viewpoint of verification] (2) Are new suppliers evaluated? (3) Is evaluation updated periodically in the case of continuing transactions? (4) Are suppliers evaluated in light of (1) above? (5) Is action taken for suppliers not evaluated yet or suppliers whose evaluation content and results have problems? *When suppliers need improvement, they must receive guidance and instructions for making improvement. (6) Does the company check that their primary suppliers evaluate secondary suppliers from which they purchase parts/materials?				
	(3)	When continuing business relationship, do you update evaluation periodically?							
	(4)	Are suppliers evaluated in light of (1) above?							
	(5)	Do you take any action for suppliers not evaluated yet or suppliers whose							
	(6)	Do you check that your primary suppliers evaluate secondary suppliers from which they purchase parts/materials?							
	(7)	Are there documents that set forth procedures for conducting (1) to (6) above?		Enter document names, document	3. Documents describing supplier evaluation procedure [Viewpoint of verification] (7) Are there documents that set forth procedures for conducting (1) to (6) above?				
3.3 Acceptance Verification	(1)	At the time of acceptance, do you verify compatibility with your management criteria according to the risks of purchased goods and keep records of the verification?		Enter the names of relevant records.	1. Records of acceptance verification [Viewpoint of verification] (1) At the time of acceptance, does the company verify compatibility with its management criteria, according to the risks of purchased goods? Are records of the verification kept? *Acceptance verification should include sub-contractors. *It is accaptable that the company establishes a system to order only parts & materials that meet its management criteria and check order Nos., model names, etc. at the time of incoming.				
	(2)	Are there documents that set forth procedures for conducting (1) above?		Enter document names, document	2. Documents describing the method of acceptance verification Example: receiving inspection procedure [Viewpoint of verification] (2) Are there documents that set forth procedures for conducting (1) above?				

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No.	Question	Self-audit result	Evidence/document names/others					
3.4 Process Management										
3.4.1 Preventing Incorrect Use, Admixture, and Contamination		(1)	Do some processes within the scope of management use parts or materials containing prohibited substances? * Select "N/A" with following questions from (2) to (9) if the answer is "N/A".		When the reply is YES, enter the name, process, and use of the	1. Records that enable verification of the concerned prohibited substance name, process, and use (information given to the left question, Column G.) [Viewpoint of verification] (1) Do some processes within the scope of management use parts/materials containing prohibited substances?				
		(2)	Is proper stock management performed for parts & materials containing prohibited substances (including subsidiary materials and packaging materials) to prevent incorrect use, admixture, mixing, and contamination?		Describe the specific management method to prevent incorrect use, admixture, mixing, and contamination	2. Records that enable verification of the management status of the concerned processes (information given to the left) [Viewpoint of verification] (2) Is proper stock management performed for parts & materials containing prohibited substances (including subsidiary materials and packaging materials) to prevent incorrect use, admixture, mixing, and contamination?				
		(3)	Is proper management of production process performed for parts & materials containing prohibited substances used (including the vicinity and stock at production lines) to		Describe the specific management method to prevent incorrect use,	(3) Is proper management of production performed for parts & materials containing prohibited substances (including the vicinity and stock at production lines) to prevent incorrect use, admixture, mixing, and contamination? *Cleaning processes (e.g., sponge for cleaning soldering irons) in the vicinity should be subject to the management. -- *Processes for other businesses should also be subject to the management.				
		(4)	Is proper management performed for parts & materials containing prohibited substances in the "rework process" to prevent incorrect use, admixture, mixing, and contamination?		Describe the specific management method to prevent incorrect use,	(4) Is proper management performed with parts & materials containing prohibited substances in the "rework process" to prevent incorrect use, admixture, mixing, and contamination?				
		(5)	Is proper management performed for "production facilities and jigs/tools" that come into contact with parts & materials containing prohibited substances, to prevent incorrect use, admixture, mixing, and contamination?		Describe the specific management method to prevent incorrect use,	(5) Is proper management performed with "production facilities and jigs/tools" that come into contact with parts & materials cont				
		(6)	Is proper management performed for parts & materials containing prohibited substances in "product storage space in shipping warehouses" to prevent incorrect use, admixture, mixing, and		Describe the specific management method to prevent incorrect use,	(6) Is proper management performed with parts & materials cont				
		(7)	Is proper management performed in "long-term goods-in-process storage space" to prevent incorrect use, admixture, mixing, and contamination of parts & materials containing		Describe the specific management method to prevent incorrect use,	(7) Is proper management performed in "long-term goods-in-proc				
		(8)	In processes other than (2) to (7) above, is proper management performed if there is a possibility of the incorrect use, admixture, mixing, and contamination of parts & materials		Describe the specific management method to prevent incorrect use,	(8) In processes other than (2) to (7) above, is proper managemer *The management method for preventing incorrect use and adm				
		(9)	Are there documents that stipulates procedures for performing management activities (2) to (8) described above?		Enter document names, document numbers, item names, and revision	3. Records describing management procedures to prevent incorrect use and contamination in the concerned processes (work standards, etc.) [Viewpoint of verification] (9) Are procedures for implementing (2) to (8) above determined?				

Action Items		Audit Questions			Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
	No.	Question	Self-audit result	Evidence/document names/others					
3.4.2 Appropriate Management of Chemical Reaction Processes	(1)	Do the following two conditions apply? - Manufacturing processes that use substances/preparations include a process where changes occur in constituents and concentrations. - Neglecting to manage this process may cause residues or creation of controlled chemical substances in excess of management criteria. * Select "N/A" with following questions (2) and (3) if the answer is "N/A".		When the reply is YES, describe the concerned process, materials in use,	1. Records that enable verification of the concerned process, materials in use, and details of reaction (information given to the left) [Viewpoint of verification] (1) Do the following two conditions apply? - Manufacturing processes that use substances/preparations include a process where changes occur in constituents and concentrations. - Neglecting to manage this process may cause residues or creation of controlled chemical substances in excess of management criteria. *Answer the following questions when the above applies. <Examples of reaction> - Polymerization (PVC: chemical reaction by vinyl chloride) - Electroless nickel plating process (lead: concentration variations in the plating solution) - Ink paints (lead, cadmium, etc.: concentration variations due				
	(2)	Are management requirements and details for the concerned process defined clearly?		Describe the specific management	2. Records that enable verification of the management status of the concerned process (records of analysis results, etc.) Verification method: process photographs, on-site inspection [Viewpoint of verification] (2) Are management items and details for the concerned process defined clearly?				
	(3)	Are there documents that set forth procedures for conducting (2) above?		Enter document names, document	3. Documents describing the management method of the concerned process [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting (2) above?				
3.4.3 Management of Sub-contractors	(1)	Regarding management of chemical substances in products, are the management requirements and details instructed in writing to sub-contractors?		Enter the names of relevant records.	1. Records of instructions given to sub-contractors regarding the method of management of chemical substances in products [Viewpoint of verification] (1) Regarding management of chemical substances in products, are the management items and details instructed in writing to sub-contractors? *Responsibility and authority must be defined clearly when sub-contractors are entrusted to purchase parts and materials.				
	(2)	Do you check the implementation of instructions given in (1) above?		Enter the names of relevant records.	2. Records of checking the implementation of instructions given in (1) above [Viewpoint of verification] (2) Does the company check the implementation of instructions given in (1) above?				
	(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	3. Documents describing the management method of sub-contractors regarding the "management of chemical substances in products" [Viewpoint of verification]				
3.5 Shipping Verification	(1)	Are all action items and details implemented in the processes from acceptance to shipping?		Enter the names of relevant records.	1. Records that enable verification of specified action taken in the acceptance-to-shipment processes (identification tag) [Viewpoint of verification] (1) Are all action items and details implemented in the processes from acceptance to shipping? *Shipping must be stopped when "non-conformance" is identified in the process from incoming to shipping. *Tip for auditing a mixed production factory: checking at the time of unloading parts & materials, solder flow process, whether checking is performed during tests, etc.				
	(2)	Are there documents that set forth procedures for conducting (1) above?		Enter document names, document	2. Documents describing the method of shipping verification [Viewpoint of verification] (2) Are there documents that set forth procedures for conducting (1) above?				

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No.	Question	Self-audit result	Evidence/document names/others					
3.6 Traceability		(1)	Is management performed such that the lots number of constituent materials/raw materials, manufacturing periods and locations (lines), and sub-contractors are traceable based on shipped products?		Enter the names of relevant records.	1. Records that enable identification of the acceptance lots of constituent materials/raw materials, manufacturing periods and locations (lines), and sub-contractors based on shipped products *Manufacturing lines including those of suppliers and sub-contractors [Viewpoint of verification]				
		(2)	Are there documents that set forth procedures for conducting (1) above?		Enter document names, document	2. Documents describing the procedure to ensure traceability [Viewpoint of verification] (2) Are there documents that set forth procedures for conducting (1) above?				
3.7 Change Control		(1)	When making changes inside the company with possible effects on chemical substances in products, do you check compliance with management criteria in advance?		Enter the names of relevant records.	1. Records of checking compatibility with management criteria regarding in-house changes with possible effects on chemical substances in products (records of verification at the time of engineering changes) [Viewpoint of verification] (1) Does the company verify compliance with management criteria before making in-house elemental changes with possible effects on chemical substances in products?				
		(2)	(2)When suppliers/sub-contractors are going to make changes with possible effects on chemical substances in products, do you verify in advance their compliance with your management criteria?		Enter the names of relevant records.	2. Records of checking compatibility with company management criteria when suppliers make changes with possible effects on chemical substances in products (process change applications submitted by suppliers) [Viewpoint of verification] (2) Does the company verify compliance with its management criteria before suppliers/sub-contractors make elemental changes with possible effects on chemical substances in products? *Suppliers (including secondary and tertiary suppliers) should be notified of the change control procedure.				
		(3)	When changes having possible effects on chemical substances in products are to be made inside the company or by suppliers/sub-contractors, do you notify customers of these changes in		Enter the names of relevant records.	3. Records of notifying customers of changes with possible effects on chemical substances in products (process change applications submitted to customers) [Viewpoint of verification] (3) When elemental changes with possible effects on chemical				
		(4)	Are there documents that set forth procedures for conducting (1) to (3) above?		Enter document names, document	4. Documents describing change control [Viewpoint of verification] (4)Are there established procedures for conducting (1) to (3) above? *Changes with possible effects on chemical substances in products: "changes and additions in suppliers", "changes in purchased items", and "changes in processes". Changes not affecting quality should also be subject to the change control. *Flow of communication with suppliers, sub-contractors, and customers must be clarified.				
3.8 Non-conformity Response		(1)	Are there rules for taking emergency measures against non-conformity?		Enter document names, document numbers, item names, and revision numbers for 4 questions.	1. Documents describing measures to be taken against non-conformity [Viewpoint of verification] (1) Are there rules for taking emergency measures against non-conformity? <Examples of emergency measures> - Identification of the scope of influence (identification of the affected lot, equipment involved, etc.) - Containment (halting production, halting shipping, isolation) - Communication within the company (communication to related divisions, persons responsible for management of chemical substances in products, managers), communication to customers (2) Are there rules for identifying the cause and implementing the appropriate measures? (3) Are there rules for implementing horizontal deployment to prevent recurrence? (4) Are there rules for taking preventive measures against non-conformity?				
		(2)	Are there rules for identifying the cause and implementing the appropriate countermeasures?							
		(3)	Are there rules for spreading the appropriate countermeasure horizontally throughout the company to prevent recurrence?							
		(4)	Are there rules for taking preventive measures against non-conformity?							

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No	Question	Self-audit result	Evidence/document names/others					
4. Management of Human Resources, Documentation, and Information										
4.1 Training		(1)	Is training given to personnel needed to implement the system for management of chemical substances in products?		Enter the names of relevant records.	1. Training records (history of training) [Viewpoint of verification] (1) Is training given to personnel needed to implement the system for management of chemical substances in products? <Examples of trainees> - Training for personnel in charge of parts & materials selection - Training for personnel in charge of examination/information on chemical substances in products - Training for operators, workers, sales personnel, suppliers, and sub-contractors				
		(2)	Does the training content cover operations necessary for implementing and maintaining the system of management of chemical substances in products?		Enter the methods of notifying the	2. Records of training details (training contents) [Viewpoint of verification] (2) Does the training cover details necessary in each business operation for implementing the system of management of chemical substances in products?				
		(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	3. Documents describing training related to management of chemical substances in products [Viewpoint of verification] (3) Are procedures established for implementing (1) and (2) above?				
4.2 Management of Documentation and Records		(1)	Do you systematically manage documents related to management of chemical substances in products by means of document lists, etc.?		Enter the names of relevant records.	1. Records of systematic management of documents related to management of chemical substances in products (document lists are acceptable) [Viewpoint of verification] (1) Are documents related to management of chemical substances in products managed systematically by means of document lists, etc.? *The document system must reflect the history of revisions.				
		(2)	Do you notify related divisions of the most recent version of documents related to management of chemical substances in products ?		Check the system for viewing the	2. Records of communication made concerning (1) above [Viewpoint of verification] (2) Is the most recent version notified to divisions that need documents related to management of chemical substances in products? *It is acceptable to have such documents accessible to divisions in need of them.				
		(3)	Do you keep records of operation?		Enter the names of records and their	3. Records with which the retention of operation records can be confirmed [Viewpoint of verification] (3) Are the records of operation kept? *Operation records refer to records checked for each action item. *Retention periods and other rules should be established for the management of documentation. *Evidence for identifying substances in products and materials should be kept for 10 years from the latest delivery.				
		(4)	Are there documents that set forth procedures for conducting (1) to (3) above?		Enter document names, document	4. Documents describing the management of documentation [Viewpoint of verification] (4) Are there documents that set forth procedures for conducting (1) to (3) above?				
4.3 Communication with customers		(1)	Do you respond to customer-requested examinations of information on chemical substances in products?		Enter the names of relevant records.	1. Records of replies made to customers concerning "information on chemical substances" in products [Viewpoint of verification] (1) Are replies made to customer-requested examinations of "information on chemical substances" in products? *Replies made and not made yet should be managed properly.				
		(2)	Are there documents that set forth procedures for conducting (1)above?		Enter document names, document	2. Documents describing the need to respond to customers regarding "information on chemical substances" in products [Viewpoint of verification] (2) Are there documents that set forth procedures for conducting (1)above?				

Action Items		Audit Questions				Verification evidence and viewpoints	Score	Improvement program	Evaluation after improvement program	Score after improvement program
		No.	Question	Self-audit result	Evidence/document names/others					
5. Performance (State of Implementation) Evaluation and Improvement		(1)	Is the status of management of chemical substances in products verified periodically?		Enter the names of relevant records for 3 questions.	1. Records of checking the status of management of chemical substances in products (internal audit records) [Viewpoint of verification] (1) Is the status of management of chemical substances in products verified periodically? (2) Are improvements made with issued brought to attention? (3) Are reports made to persons responsible for environmental management?				
		(2)	Are corrective actions implemented for issues that have been identified as needing improvements?							
		(3)	Are the results reported to responsible persons for environmental management?							
		(4)	Are there documents that set forth procedures for conducting (1) to (3) above?		Enter document names, document	2. Documents describing the need to verify the status of management of chemical substances in products [Viewpoint of verification] (4) Are there documents that set forth procedures for conducting (1) to (3) above?				
6. Management Review (Correction by Management)		(1)	Do you make regular reports on "5 Performance Evaluation and		Enter the names of relevant records for 2 questions.	1. Records of reporting to top management about the "status of management of chemical substances in products" and records of top management reviews (e.g., minute of management review) [Viewpoint of verification] (1) Are the details of "5. Performance Evaluation and Improvement" reported? (2) Does top management give instructions, as necessary, in response to above-mentioned reports?				
		(2)	Does top management give instructions, as necessary, in response to above-mentioned reports?							
		(3)	Are there documents that set forth procedures for conducting (1) to (2) above?		Enter document names, document	2. Documents describing reporting to top management regarding the "status of management of chemical substances in products" [Viewpoint of verification] (3) Are there documents that set forth procedures for conducting (1) to (2) above?				
Rank	First			< Criterion > A rank: 100 points B rank: There is an improvement plan ..80-99 points.. without incompatible. C rank: There is an improvement plan ..50-79 points.. without incompatible. D rank: 49 points or less suitable are combined, exist, and it		The 1st points in evaluation 100 point full marks conversion value	Point	Evaluation point after it improves it 100 point full marks conversion value		Point
	After improve									

Appendix 3: List of Environmentally Hazardous Substance (Group)

	Environmentally hazardous substances	Scope applicable	
1	ozone depleting substances	Electric	Automotive
2	greenhouse substances	Electric	Automotive
3	chloroform	Electric	Automotive
4	glycol ether and its acetates	Electric	Automotive
5	organic brominated solvents	Electric	Automotive
6	benzene	Electric	Automotive
7	aldehyde compounds	Electric	Automotive
8	organic chlorinated solvents	Electric	Automotive
9	cadmium and its compounds	Electric	Automotive
10	mercury and its compounds	Electric	Automotive
11	lead and its compounds	Electric	Automotive
12	hexavalent chromium compounds	Electric	Automotive
13	lead, mercury, cadmiun, and hexavalent chromium in wrapping material	Electric	Automotive
14	organostannic compounds	Electric	Automotive
15	beryllium and its compounds	Electric	Automotive
16	asbestos	Electric	Automotive
17	specified brominated flame retardants	Electric	Automotive
18	polychlorinated naphthalene	Electric	Automotive
19	poly chlorinated biphenyl : PCB poly chlorinated terphenyls : PCT	Electric	Automotive
20	chlorinated paraffins	Electric	Automotive
21	azo dye/pigment forming specified amine compounds	Electric	Automotive
22	radioactive substances	Electric	Automotive
23	xylene	Electric	Automotive
24	toluene	Electric	Automotive
25	antimony and its compounds	Electric	Automotive
26	chromium and its compounds（except hexavalent chromium compounds）	Electric	Automotive
27	selenium and its compounds	Electric	Automotive
28	nickel and its compounds	Electric	Automotive
29	arsenic and its compounds	Electric	Automotive
30	organophosphorus compounds	Electric	Automotive
31	polyvinyl chloride	Electric	Automotive
32	brominated flame retardants	Electric	Automotive
33	phthalic esters	Electric	Automotive
34	perfluorooctane sulfonate and its related substances	Electric	Automotive
35	polycyclic aromatic hydrocarbons and its mixtures	Electric	Automotive
36	cobalt and its compounds	Electric	Automotive
37	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene, 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	Electric	Automotive
38	pitch, coal tar, high temp.	Electric	Automotive
39	mineral fibres (natural or synthetic) except continuous filament fibres	Electric	Automotive
40	2,4-dinitrotoluene	Electric	Automotive

	Environmentally hazardous substances	Scope applicable	
41	biocidal coatings / biocidal additives	Electric	Automotive
42	acrylamide	Electric	Automotive
43	boric acid	Electric	Automotive
44	disodium tetraborate, anhydrous	Electric	Automotive
45	tetraboron disodium heptaoxide hydrate	Electric	Automotive
46	volatile organic compounds	Electric	Automotive
47	hydrazine	Electric	Automotive
48	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Electric	Automotive
49	formaldehyde, oligomeric reaction products with aniline	Electric	Automotive
50	4-(1,1,3,3-tetramethylbutyl)phenol	Electric	Automotive
51	N,N-dimethylacetamide	Electric	Automotive
52	phenolphthalein	Electric	Automotive
53	hexachlorobenzene	Electric	Automotive
54	chlorinated or brominated dioxins or furans	Electric	Automotive
55	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Electric	Automotive
56	4-nitrobiphenyl and its salts	Electric	Automotive
57	n-nitrosamines	Electric	Automotive
58	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Electric	Automotive
59	vinyl chloride monomer	Electric	Automotive
60	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Electric	Automotive
61	chlorinated flame retardants	Electric	Automotive
62	specified organic pigment	Electric	Automotive
63	acetamide	--	Automotive
64	acetamide, n-methyl-	--	Automotive
65	acetonitrile	--	Automotive
66	acrylonitrile	--	Automotive
67	ammonium perchlorate	--	Automotive
68	aniline and its salts	--	Automotive
69	aromatic amines	--	Automotive
70	barium compounds (organic or water soluble)	--	Automotive
71	benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene	--	Automotive
72	1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	--	Automotive
73	2-benzothiazolesulphenamide, N, N-dicyclohexyl-	--	Automotive
74	butadiene, 1,3 -	--	Automotive
75	colophony (rosin)	--	Automotive
76	copper	--	Automotive
77	cyclohexane	--	Automotive
78	2-cyclohexen-1-one, 3,5,5-trimethyl-	--	Automotive
79	cyclopentasiloxane, decamethyl-	--	Automotive
80	cyclotetrasiloxane, heptamethylphenyl-	--	Automotive
81	cyclotetrasiloxane, octamethyl-	--	Automotive
82	decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	--	Automotive

	Environmentally hazardous substances	Scope applicable	
83	dimethylformamide (N,N-dimethylformamide)	--	Automotive
84	epichlorohydrin (1-chloro-2,3-epoxypropane)	--	Automotive
85	1-ethenylpyrrolidin-2-one (2-Pyrrolidione, 1-ethenyl-)	--	Automotive
86	fatty acids, C6-19-branched, zinc salts	--	Automotive
87	fluorotelomers	--	Automotive
88	2-furancarboxaldehyde	--	Automotive
89	hexanedioic acid, bis(2-ethylhexyl) ester	--	Automotive
90	hexanoic acid, 2-ethyl-	--	Automotive
91	methylacrylamidomethoxy-acetate	--	Automotive
92	2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	--	Automotive
93	nitrites	--	Automotive
94	nitrocellulose	--	Automotive
95	nonylphenol	--	Automotive
96	nonylphenol ethoxylates	--	Automotive
97	7-oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	--	Automotive
98	perchlorates	--	Automotive
99	PFOA and its salts, perfluorooctanoic acids C8F15O2X (X = H, NH4, and metal salts)	--	Automotive
100	phenol	--	Automotive
101	phenol, 2,4,6-tris(1,1-dimethylethyl)-	--	Automotive
102	phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	--	Automotive
103	phenylendiamines and its salts	--	Automotive
104	phosphonium, triphenyl(phenylmethyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	--	Automotive
105	polyamine curing agents	--	Automotive
106	silica, crystalline	--	Automotive
107	siloxanes and silicones	--	Automotive
108	sodium azide	--	Automotive
109	vinyl benzenee	--	Automotive
110	styrene oxide (epoxy styrene)	--	Automotive
111	thallium and its compounds	--	Automotive
112	thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-	--	Automotive
113	vanadium(V) oxide	--	Automotive

Appendix 4-1: List of Environmentally Hazardous Substance Control Standard（For Electric）

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
1	ozone depleting substances	Chemically formed product	Prohibited	1000ppm	Use prohibition in manufacturing process including supplier. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	1000ppm	Product using ozone-depleting substance. Treatments such as cleaning and foaming. Applies to foaming cushioning material using ODC.
2	greenhouse substances	Chemically formed product	Prohibited	1000ppm	The substances listed in Appendix5, and the substances whose GWP (100 years) is 1500 or large must not be used (except when it is used as cooling medium). Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	GWP 100 year value of less than 1500. Thin film forming application such as semiconductor, liquid crystal rinsing, etching gas
3	chloroform	Chamically formed product	Prohibited	1000ppm	All applications Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Controlled	unintended inclusion 1000ppm	All applications
4	glycol ether and its acetates	Chamically formed product	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table3. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	All applications excepting above. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
5	organic brominated solvents	Chamically formed product	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table4. Liquid chemically formed product such as adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	All applications excepting above.
6	benzene	Chamically formed Article	Prohibited	10000ppm	Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	100ppm	Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser. All applications excepting fuel constituent.

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
7	aldehyde compounds	Chamically formed product	Controlled	unintended inclusion 15ppm	Solder, or resin raw material, etc.
		Article	Prohibited	15ppm	All applications excepting such as emitted substance from polymer components. Fiber in human body contact part of product made as function to touch body continuing. Antiseptic of wood
			Controlled	unintended inclusion 1000ppm	Emitted substance from polymer components（Molding resin material, Principal ingredient of adhesive, etc.）
8	organic chlorinated solvents	Chamically formed product	Prohibited	1000ppm	All applications Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	1000ppm	carbon tetrachloride, and 1,1,1-trichloroethane
			Controlled	unintended inclusion 1000ppm	excepting carbon tetrachloride, and 1,1,1-trichloroethane
9	cadmium and its compounds	Article	Prohibited	5ppm	plastic, ink, paint, rubber
				100ppm	All applications other than packaging parts, surface treatment, photographic film, fluorescent lamps, electric contact such as DC motor contact, switch, temperature fuse, pigment of glass and glass paint, solder (20 ppm or greater), fluorescent matter, light conductive cell resistor, resistor paste, and Ni-cd battery., etc.
			Controlled	unintended inclusion 100ppm	Table1, Applications exempted from the prohibition in RoHS Article.
10	mercury and its compounds	Article	Prohibited	1000ppm	All applications excepting Table1, Applications exempted from the prohibition in RoHS Article.
			Controlled	unintended inclusion 1000ppm	Table1 Applications exempted from the prohibition in RoHS Article.
11	lead and its compounds	Article	Prohibited	100ppm	plastic, ink, paint, rubber
				unintended inclusion 1000ppm	All applications excepting Table1 Applications exempted from the prohibition in RoHS Article.
			Controlled	unintended inclusion 1000ppm	Table1 Applications exempted from the prohibition in RoHS Article. *Applies to lead in high melting temperature type solders for internal connections (i.e. lead-based alloys containing 85% by weight or more lead), as long as these solders are not exposed through external use.

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
12	hexavalent chromium compounds	Article	Prohibited	1000ppm	All applications. Pigment, surface treatment, etc.
13	lead, mercury, cadmiun, and hexavalent chromium in wrapping material	Chamically formed product	Prohibited	Sum of Pb, Cd, Hg, Cr (VI): 100 ppm or less. However, cadmium in plastics: less than 5 ppm	Wrapping materials disposed in ALPS process
		Article			Product packaging carton, returnable case, tray, reel, magazine, stick, sheet, wrap, bag, step, cardboard, paint, ink, tape, binding band, label, cushioning material, etc.
14	organostannic compounds	Article	Prohibited	1000ppm	With regards to triphenyltin compounds, tributyltin compounds, and other tri-subtituted organiostannic compounds, this status applies to the use of all applications such as paint, ink, fungicide, PVC stabilizer, etc.
				tin element of 1000ppm or less in the product	Use of all Dibutyl tin compounds and Dioctyl tin compounds for which the tin element exceeds 0.1wt% is prohibited.
			Controlled	unintended inclusion 1000ppm	Regarding other organostannic compounds, this status applies to all applications
15	beryllium and its compounds	Article	Prohibited	1000ppm	Applies to all non-controlled applications. Alloys and ceramics
			Controlled	unintended inclusion 1000ppm	Applies to beryllium copper with less than 3% beryllium
16	asbestos	Article	Prohibited	1000ppm	Applies to all applications. Insulations materials and bulking agents, etc.
17	specified brominated flame retardants	Article	Prohibited	1000ppm	All applications. PBB, PBDE. Flame retardants for plastic, etc.
18	polychlorinated naphthalene	Article	Prohibited	1000ppm	Applies to all applications such as for lubrication oil and paint, etc. Ones with chlorine number greater than 3.
19	PCB : poly chlorinated biphenyl PCT : poly chlorinated terphenyls	Article	Prohibited	1000ppm	Applies to all applications. For oil-immersed tranformers, capacitors, insulation oil and flame retardants, etc.

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
20	chlorinated paraffins	Chamically formed product	Prohibited	1000ppm	short chain (C10-13,) chlorinated paraffins Applies to all applications.
			Controlled	unintended inclusion 1000ppm	middle chain (C14-17,) chlorinated paraffins Applies to all applications.
		Article	Prohibited	1000ppm	short chain (C10-13,) chlorinated paraffins Applies to all applications.
			Controlled	unintended inclusion 1000ppm	All applications excepting short chain and middle chain paraffins.
21	azo dye/pigment forming specified amine compounds	Article	Prohibited	1000ppm	Applies to azo dye having possibility of generating specific amine in Table 5 due to decomposition, being dye in human body contacting part of product made as function to contact human body continually.
			Controlled	unintended inclusion 1000ppm	Applies to all materials that have a part that is not in persistent contact with the human body
22	radioactive substances	Article	Prohibited	unintended inclusion	Applies to all applications. For optical glass and fluorescent substances, etc.
23	xylene	Chamically formed Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Liquefaction formed product such as cleaner, adhesive, lubricant, mold releaser.
24	toluene	Chamically formed product	Controlled	unintended inclusion 1000ppm	Applies to all applications. Liquefaction formed product such as cleaner, adhesive, lubricant, mold releaser.
25	antimony and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For auxiliary flame retardants, solder compositions, semconductor doping agents, glass, etc.
26	chromium and its compounds (except hexavalent chromium compounds)	Article	Controlled	unintended inclusion 1000ppm	Applies to applications. For alloy, pigment, glass additive,etc.
27	selenium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For photosensitive matter, pigments, photoelectric cells, solar sells, magnetic core, etc.
28	nickel and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For plating, alloy, ferrite, batteries, etc.

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
29	arsenic and its compounds	Article	Prohibited	1000ppm	"arsenic acid, lead (4+) salt" applies to the lead compound
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting "arsenic acid, lead (4+) salt". Semiconductor doping agents, compound semiconductors, pigments, glass coloring agents, etc.
30	organophosphorus compounds	Article	Prohibited	1000ppm	It is limited to the substances, 1. tris-(1-aziridinyl) phosphine oxide(CAS No.545-55-1) 2. tris(2,3-dibromopropyl)phosphate [tris] (CAS No.126-72-7) Applies to all applications.
			Controlled	unintended inclusion 1000ppm	Applies to all applications except for use of agricultural chemicals and pesticides
31	polyvinyl chloride	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For cable covers, capacitor sleeves, labels, tape, packaging materials
32	brominated flame retardants	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For flame retardants for plastics or printed-wiring boards
33	phthalic esters	Article	Prohibited	1000ppm	Specified phthalic esters (groups Ⅰ & Ⅱ) listed in the table6 must not be used for plastic material whose applications are toys and nursery products.
			Controlled	unintended inclusion 1000ppm	Applies to all applications other than those outlined above and the phtalic esters not specified in table6.
34	perfluorooctane sulfonate and its related substances	Article	Prohibited	1000ppm	Applies to all applications. However, the applications described below are excluded; A) Photo resist used in the photolithography processes, or when used as antireflective coating agent B) Photographic coating agent used for film, paper and lithographic plate.
				1μg/m2	When used for textiles and used as coating agent for other materials, it must not be contained beyond 1μg/m2 .
35	polycyclic aromatic hydrocarbons and its mixtures	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. In materials for dye and pigment, preservatives for timber, and insecticides.
36	cobalt and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For gas absorbers, wet-and-dry indicators, solid lubricants, plate process aids, dyes for glass, and coloring agents for ceramics, etc.
37	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene, 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For flavors and fragrances (soap, detergents, creams, perfume, etc.)

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
38	pitch, coal tar, high temp.	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For electrode binding agents, etc.
39	mineral fibres (natural or synthetic) except continuous filament fibres	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For insulation material used as a substitute for asbestos
40	2,4-dinitrotoluene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For organic, synthetic raw materials, etc.
41	biocidal coatings / biocidal additives	Article	Prohibited	1000ppm	Applies to dimethyl fumarate such as for fungicides
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting dimethyl fumarate.
42	acrylamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
43	boric acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
44	tetraboron disodium heptaoxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
45	tetraboron disodium heptaoxide hydrate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
46	volatile organic compounds	Chamically formed product	Prohibited	1000ppm	With regards to dichloromethane, trichloroethylene, and chloroform, applies to all applications.
			Controlled	unintended inclusion	Aplies to all applications
47	hydrazine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
48	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
49	formaldehyde, oligomeric reaction products with aniline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Raw material for synthesis of a chemical (polymethylene polyphenyl polyisocyanate [PMDI])

	Environmentally hazardous substances	Report object	Control level	Tolerance (threshold)	Object, Usage, etc.
50	4-(1,1,3,3-tetramethylbutyl)phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Raw material for oil-soluble phenol resin, surfactant.
51	N,N-dimethylacetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Solvent for reaction, solvent for purification, solvent for resin.
52	phenolphthalein	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Use in a laboratory (e.g. pH indicator), dyes, indicators.
53	hexachlorobenzene	Article	Prohibited	unintended inclusion	Applies to all applications. Raw material for colorant.
54	chlorinated or brominated dioxins or furans	Article	Prohibited	10ppb	Applies to all applications. Impurities contained in a product, etc.
55	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Article	Prohibited	1000ppm	Applies to all applications. Insecticides, etc.
56	4-nitrobiphenyl and its salts	Article	Prohibited	100ppm	Applies to all applications. Impurities contained in paint, antioxidant in lubricant, rubber/latex, plastic and others.
57	n-nitrosamines	Article	Prohibited	unintended inclusion	It is limited to the substance, N-nitroso dimethyl amine(CAS No: 62-75-9). Pesticides, rubber & tire, alkyl amine, and dyes.
58	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Article	Prohibited	1000ppm	Applies to all applications. Ultraviolet absorber for plastic and others.
59	vinyl chloride monomer	Article	Prohibited	5ppm	Applies to all applications. Residual monomer in a product and others.
60	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Article	Controlled	1000ppm	Applies to all applications. Pharmaceuticals, bacteria stains, dyes and others.
61	chlorinated flame retardants	Article	Controlled	1000ppm	Applies to all applications. Flame retardants, etc.
62	specified organic pigment	Article	Prohibited	unintended inclusion	The organic pigment including PCB above 50ppm. Applies to all applications.

Appendix 4-2: List of Environmentally Hazardous Substance Control Standard（For Automotive）

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
1	ozone depleting substances	Chemically formed product	Prohibited	1000ppm	Use prohibition in manufacturing process including supplier. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	1000ppm	Product using ozone-depleting substance. Treatments such as cleaning and foaming. Applies to foaming cushioning material using ODC.
2	greenhouse substances	Chemically formed product	Prohibited	1000ppm	The substances listed in Appendix3, and the substances whose GWP (100 years) is 1500 or large must not be used (except when it is used as cooling medium). Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	GWP 100 year value of less than 1500. Thin film forming application such as semiconductor, liquid crystal rinsing, etching gas
3	chloroform	Chemically formed product	Prohibited	1000ppm	All applications Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Controlled	unintended inclusion 1000ppm	All applications
4	glycol ether and its acetates	Chemically formed product	Prohibited	1000ppm	With regards to proven reproductive toxicants. Refer to Table3. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	All applications excepting above. Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
5	organic brominated solvents	Chemically formed product	Prohibited	1000ppm	With regards to proven reproductive toxicants. Refer to Table4. Liquid chemically formed product such as adhesive, lubricant, mold releaser.
			Controlled	unintended inclusion 1000ppm	All applications excepting above.
6	benzene	Chemically formed product	Prohibited	10000ppm	Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	100ppm	Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser. All applications excepting fuel constituent.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
7	aldehyde compounds	Chemically formed product	Controlled	unintended inclusion 15ppm	Solder, or resin raw material, etc.
		Article	Prohibited	15ppm	All applications excepting such as emitted substance from polymer components. Fiber in human body contact part of product made as function to touch body continuing. Antiseptic of wood
			Controlled	unintended inclusion 1000ppm	Emitted substance from polymer components（Molding resin material, Principal ingredient of adhesive, etc.）
8	organic chlorinated solvents	Chemically formed product	Prohibited	1000ppm	All applications Liquid chemically formed product such as cleaner, adhesive, lubricant, mold releaser.
		Article	Prohibited	1000ppm	carbon tetrachloride, and 1,1,1-trichloroethane
			Controlled	unintended inclusion 1000ppm	excepting carbon tetrachloride, and 1,1,1-trichloroethane
9	cadmium and its compounds	Article	Prohibited	5ppm	plastic, ink, paint, rubber
				100ppm	All applications other than packaging parts, surface treatment, photographic film, fluorescent lamps, electric contact such as DC motor contact, switch, temperature fuse, pigment of glass and glass paint, solder (20 ppm or greater), fluorescent matter, light conductive cell resistor, resistor paste, and Ni-cd battery., etc.
			Controlled	unintended inclusion 100ppm	Table2 Applications exempted from the prohibition in ELV.
10	mercury and its compounds	Article	Prohibited	1000ppm	All applications excepting Table2 Applications exempted from the prohibition in ELV.
			Controlled	unintended inclusion 1000ppm	Table2 Applications exempted from the prohibition in ELV.
11	lead and its compounds	Article	Prohibited	100ppm	plastic, ink, paint, rubber
				unintended inclusion 1000ppm	All applications excepting Table2 Applications exempted from the prohibition in ELV.
			Controlled	unintended inclusion 1000ppm	Table2 Applications exempted from the prohibition in ELV.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
12	hexavalent chromium compounds	Article	Prohibited	1000ppm	All applications. Pigment, surface treatment, etc.
13	lead, mercury, cadmiun, and hexavalent chromium in wrapping material	Chemically formed product	Prohibited	Sum of Pb, Cd, Hg, Cr (VI): 100 ppm or less. However, cadmium in plastics: less than 5 ppm	Wrapping materials disposed in ALPS process
		Article			Product packaging carton, returnable case, tray, reel, magazine, stick, sheet, wrap, bag, step, cardboard, paint, ink, tape, binding band, label, cushioning material, etc.
14	organostannic compounds	Article	Prohibited	1000ppm	With regards to triphenyltin compounds, tributyltin compounds, and other tri-subtituted organiostannic compounds, this status applies to the use of all applications such as paint, ink, fungicide, PVC stabilizer, etc.
			Prohibited	tin element of 1000ppm or less in the product	Use of all Dibutyl tin compounds and Dioctyl tin compounds for which the tin element exceeds 0.1wt% is prohibited.
			Controlled	unintended inclusion 1000ppm	Regarding other organostannic compounds, this status applies to all applications
15	beryllium and its compounds	Article	Prohibited	1000ppm	Applies to all non-controlled applications. Alloys and ceramics
			Controlled	unintended inclusion 1000ppm	Applies to beryllium copper with less than 3% beryllium
16	asbestos	Article	Prohibited	1000ppm	Applies to all applications. Insulations materials and bulking agents, etc.
17	specified brominated flame retardants	Article	Prohibited	1000ppm	All applications. PBB, PBDE. Flame retardants for plastic, etc.
18	polychlorinated naphthalene	Article	Prohibited	1000ppm	Applies to all applications such as for lubrication oil and paint, etc. Ones with chlorine number greater than 3.
19	PCB : poly chlorinated biphenyl PCT : poly chlorinated terphenyls	Article	Prohibited	1000ppm	Applies to all applications. For oil-immersed tranformers, capacitors, insulation oil and flame retardants, etc.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
20	chlorinated paraffins	Chemically formed product	Prohibited	1000ppm	short chain (C10-13,) chlorinated paraffins Applies to all applications.
			Controlled	unintended inclusion 1000ppm	middle chain (C14-17,) chlorinated paraffins Applies to all applications.
		Article	Prohibited	1000ppm	short chain (C10-13,) chlorinated paraffins Applies to all applications.
			Controlled	unintended inclusion 1000ppm	All applications excepting short chain and middle chain paraffins.
21	azo dye/pigment forming specified amine compounds	Article	Prohibited	1000ppm	Applies to azo dye having possibility of generating specific amine in Table 5 due to decomposition, being dye in human body contacting part of product made as function to contact human body continually.
			Controlled	unintended inclusion 1000ppm	Applies to all materials that have a part that is not in persistent contact with the human body
22	radioactive substances	Article	Prohibited	unintended inclusion	Applies to all applications. For optical glass and fluorescent substances, etc.
23	xylene	Chemically formed product	Controlled	unintended inclusion 1000ppm	Applies to liquefaction formed product such as cleaner, adhesive, lubricant, mold releaser.
24	toluene	Chemically formed product	Controlled	unintended inclusion 1000ppm	Applies to liquefaction formed product such as cleaner, adhesive, lubricant, mold releaser.
25	antimony and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For auxiliary flame retardants, solder compositions, semconductor doping agents, glass, etc.
26	chromium and its compounds (except hexavalent chromium compounds)	Article	Controlled	unintended inclusion 1000ppm	Applies to applications. For alloy, pigment, glass additive,etc.
27	selenium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For photosensitive matter, pigments, photoelectric cells, solar sells, magnetic core, etc.
28	nickel and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For plating, alloy, ferrite, batteries, etc.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
29	arsenic and its compounds	Article	Prohibited	1000ppm	arsenic acid, lead (4+) salt applies to the lead compound
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting arsenic acid, lead (4+) salt. Semiconductor doping agents, compound semiconductors, pigments, glass coloring agents, etc.
30	organophosphorus compounds	Article	Prohibited	1000ppm	It is limited to the substances, 1. tris-(1-aziridinyl) phosphine oxide(CAS No.545-55-1) 2. tris(2,3-dibromopropyl)phosphate [tris](CAS No.126-72-7) Applies to all applications.
			Controlled	unintended inclusion 1000ppm	Applies to all applications except for use of agricultural chemicals and pesticides
31	polyvinyl chloride	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For cable covers, capacitor sleeves, labels, tape, packaging materials
32	brominated flame retardants	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For flame retardants for plastics or printed-wiring boards
33	phthalic esters	Article	Prohibited	1000ppm	Specified phthalic esters (groups Ⅰ & Ⅱ) listed in the table6 must not be used for plastic material whose applications are toys and nursery products.
			Controlled	unintended inclusion 1000ppm	Applies to all applications other than those outlined above and the phtalic esters not specified in table6.
34	perfluorooctane sulfonate and its related substances	Article	Prohibited	1000ppm	Applies to all applications. However, the applications described below are excluded; A) Photo resist used in the photolithography processes, or when used as antireflective coating agent B) Photographic coating agent used for film, paper and lithographic plate.
				1μg/m2	When used for textiles and used as coating agent for other materials, it must not be contained beyond 1μg/m2 .
35	polycyclic aromatic hydrocarbons and its mixtures	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. In materials for dye and pigment, preservatives for timber, and insecticides.
36	cobalt and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For gas absorbers, wet-and-dry indicators, solid lubricants, plate process aids, dyes for glass, and coloring agents for ceramics, etc.
37	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene, 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For flavors and fragrances (soap, detergents, creams, perfume, etc.)
38	pitch, coal tar, high temp.	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For electrode binding agents, etc.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
39	mineral fibres (natural or synthetic) except continuous filament fibres	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For insulation material used as a substitute for asbestos
40	2,4-dinitrotoluene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. For organic, synthetic raw materials, etc.
41	biocidal coatings / biocidal additives	Article	Prohibited	1000ppm	Applies to dimethyl fumarate such as for fungicides
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting dimethyl fumarate.
42	acrylamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
43	boric acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
44	tetraboron disodium heptaoxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
45	tetraboron disodium heptaoxide hydrate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
46	volatile organic compounds	Chemically formed product	Prohibited	1000ppm	With regards to dichloromethane, trichloroethylene, and chloroform, applies to all applications.
			Controlled	unintended inclusion	Aplies to all applications
47	hydrazine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
48	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
49	formaldehyde, oligomeric reaction products with aniline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Raw material for synthesis of a chemical (polymethylene polyphenyl polyisocyanate [PMDI])
50	4-(1,1,3,3-tetramethylbutyl)phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Raw material for oil-soluble phenol resin, surfactant.
51	N,N-dimethylacetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Solvent for reaction, solvent for purification, solvent for resin.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
52	phenolphthalein	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications. Use in a laboratory (e.g. pH indicator), dyes, indicators.
53	hexachlorobenzene	Article	Prohibited	unintended inclusion	Applies to all applications. Raw material for colorant.
54	chlorinated or brominated dioxins or furans	Article	Prohibited	10ppb	Applies to all applications. Impurities contained in a product, etc.
55	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Article	Prohibited	1000ppm	Applies to all applications. Insecticides, etc.
56	4-nitrobiphenyl and its salts	Article	Prohibited	100ppm	Applies to all applications. Impurities contained in paint, antioxidant in lubricant, rubber/latex, plastic and others.
57	N-nitrosamines	Article	Prohibited	unintended inclusion	It is limited to the substance, N-nitroso dimethyl amine(CAS No: 62-75-9). Pesticides, rubber & tire, alkyl amine, and dyes.
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting N-nitroso dimethyl amine. Applies to all applications.
58	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Article	Prohibited	1000ppm	Applies to all applications. Ultraviolet absorber for plastic and others.
59	vinyl chloride monomer	Article	Prohibited	5ppm	Applies to all applications. Residual monomer in a product and others.
60	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Article	Controlled	1000ppm	Applies to all applications. Pharmaceuticals, bacteria stains, dyes and others.
61	chlorinated flame retardants	Article	Controlled	1000ppm	Applies to all applications. Flame retardants, etc.
62	specified organic pigment	Article	Prohibited	unintended inclusion	The organic pigment including PCB above 50ppm. Applies to all applications.
63	acetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
64	acetamide, n-methyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
65	acetonitrile	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
66	acrylonitrile	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
67	ammonium perchlorate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
68	aniline and its salts	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
69	aromatic amines	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
70	barium compounds (organic or water soluble)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
71	benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
72	1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
73	2-benzothiazolesulphenamide, N, N-dicyclohexyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
74	butadiene, 1,3 -	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
75	colophony (rosin)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
76	copper	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
77	cyclohexane	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
78	2-cyclohexen-1-one, 3,5,5-trimethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
79	cyclopentasiloxane, decamethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
80	cyclotetrasiloxane, heptamethylphenyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
81	cyclotetrasiloxane, octamethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
82	decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
83	dimethylformamide (N,N-dimethylformamide)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
84	epichlorohydrin (1-chloro-2,3-epoxypropane)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
85	1-ethenylpyrrolidin-2-one (2-Pyrrolidione, 1-ethenyl-)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
86	fatty acids, C6-19-branched, zinc salts	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
87	fluorotelomers	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
88	2-furancarboxaldehyde	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
89	hexanedioic acid, bis(2-ethylhexyl) ester	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
90	hexanoic acid, 2-ethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
91	methylacrylamidomethoxy-acetate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
92	2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
93	nitrites	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
94	nitrocellulose	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
95	nonylphenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
96	nonylphenol ethoxylates	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
97	7-oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
98	perchlorates	Article	Prohibited	1000ppm	Three materials apply to the standard of the lead compounds(lead perchlorate, perchloric acid, reaction products with lead oxide (pbo) and triethanolamine) and the mercury compounds(perchloric acid, mercury(2+) salt) respectively
			Controlled	unintended inclusion 1000ppm	Applies to all applications.excepting above three substance.. Explosive, Dynamite usage, etc.
99	PFOA and its salts, perfluorooctanoic acids $C_8F_{15}O_2X$ (X = H, NH_4, and metal salts)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
100	phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
101	phenol, 2,4,6-tris(1,1-dimethylethyl)-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
102	phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
103	phenylendiamines and its salts	Article	Prohibited	1000ppm	Applies to all applications.
104	phosphonium, triphenyl(phenylmethyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
105	polyamine curing agents	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
106	silica, crystalline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
107	siloxanes and silicones	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
108	sodium azide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
109	vinyl benzene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
110	styrene oxide (epoxy styrene)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
111	thallium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
112	thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
113	vanadium(V) oxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

Table 1: Applications exempted from the prohibition in RoHS Article

This list is the contents of the "Official Journal of the European Union" at Feb, 2011.
Apply the latest version when the content is revised.
There is no expiration date that the expiration date is an empty column at this time.

Material	No.	Exemption	Scope and dates of applicability
Mercury			
	1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
	1(a)	For general lighting purposes < 30 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011 until 31 December 2012; 2,5 mg shall be used per burner after 31 December 2012
	1(b)	For general lighting purposes ≥ 30 W and < 50 W: 5 mg	Expires on 31 December 2011; 3,5 mg may be used per burner after 31 December 2011
	1(c)	For general lighting purposes ≥ 50 W and < 150 W: 5 mg	
	1(d)	For general lighting purposes ≥ 150 W: 15 mg	
	1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm	No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011
	1(f)	For special purposes: 5 mg	
	2		
	2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
	2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm (e.g. T2): 5 mg	Expires on 31 December 2011; 4 mg may be used per lamp after 31 December 2011
	2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm and ≤ 17 mm (e.g. T5): 5 mg	Expires on 31 December 2011; 3 mg may be used per lamp after 31 December 2011
	2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 5 mg	Expires on 31 December 2011; 3.5 mg may be used per lamp after 31 December 2011
	2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 31 December 2012; 3,5 mg may be used per lamp after 31 December 2012
	2(a)(5)	Tri-band phosphor with long lifetime (≥ 25 000 h): 8 mg	Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011
	2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):	
	2(b)(1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012
	2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
	2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
	2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011

Mercury				
	3		Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):	
		3(a)	Short length (≤ 500 mm)	No limitation of use until 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
		3(b)	Medium length (> 500 mm and ≤ 1 500 mm)	No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011
		3(c)	Long length (> 1 500 mm)	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011
	4			
		4(a)	Mercury in other low pressure discharge lamps (per lamp)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
		4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:	
		4(b) Ⅰ	P ≤ 155 W	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011
		4(b) Ⅱ	155 W < P ≤ 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011
		4(b) Ⅲ	P > 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011
		4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
		4(c) Ⅰ	P ≤ 155 W	No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011
		4(c) Ⅱ	155 W < P ≤ 405 W	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011’
		4(c) Ⅲ	P > 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011
		4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
		4(e)	Mercury in metal halide lamps (MH)	
		4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	

Mercury	36		Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	Expired on 1 July 2010
Lead				
	5			
		5(a)	Lead in glass of cathode ray tubes	
		5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
	6			
		6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	
		6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	
		6(c)	Copper alloy containing up to 4 % lead by weight	
	7			
		7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	
		7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
		7(c) Ⅰ	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	
		7(c) Ⅱ	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	
		7(c) Ⅲ	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
	9(b)		Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
	11			
		11(a)	Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010
		11(b)	Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
	12		Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
	13			
		13(a)	Lead in white glasses used for optical applications	
		13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	
	14		Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011

Lead			
	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	
	16	Lead in linear incandescent lamps with silicate coated tubes	Expires on 1 September 2013
	17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
	18		
	18(a)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba) 2 MgSi 2 O 7 :Pb)	Expires on 1 January 2011
	18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi 2 O 5 :Pb)	
	19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL)	Expires on 1 June 2011
	20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	Expires on 1 June 2011
	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	
	23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
	24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	
	25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
	26	Lead oxide in the glass envelope of black light blue lamps	Expires on 1 June 2011
	29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	
	31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	
	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	
	33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	
	34	Lead in cermet-based trimmer potentiometer elements	
	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	

Hexavalent chromium			
	9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
Cadmium			
	8		
	8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
	8(b)	Cadmium and its compounds in electrical contacts	
	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime	
	38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
	39	Cadmium in colour converting II-VI LEDs (< 10 μg Cd per mm 2 of light-emitting area) for use in solid state illumination or display systems	Expires on 1 July 2014

Table 2: Applications exempted from the prohibition in ELV Article

This list is the contents of the "Official Journal of the European Union" at 31st March, 2011.
Apply the latest version when the content is revised.

There is no expiration date that the expiration date is an empty column at this time.

Material	No.	Exemption	Scope and dates of applicability
Lead			
	Lead as an alloying element		
	1(a)	Steel for machining purposes and batch hot dip galvanised steel components containing up to 0.35% lead by weight	
	1(b)	Continuously galvanised steel sheet containing up to 0.35% lead by weight	Vehicles type approved before 1 January 2016 and spare parts for these vehicles.
	2(a)	Aluminium for machining purposes with a lead content up to 2% by weight	As spare parts for vehicles put on the market brfore 1 July 2005
	2(b)	Aluminium with a lead content up to 1.5% by weight	As spare parts for vehicles put on the market brfore 1 July 2008
	2(c)	Aluminium with a lead content up to 0,4% by weight	
	3	Copper alloy containing up to 4% lead by weight	
	4(a)	Bearing shells and bushes	As spare parts for vehicles put on the market brfore 1 July 2007
	4(b)	Bearing shells and bushes in engines, transmissions and air conditioning compressors	1 July 2011 and spare parts for vehicles put on the market brfore 1 July 2011
	Lead and lead compounds in components		
	5	Batteries	
	6	Vibration dampers	Vehicles type approved before 1 January 2016 and spare parts for these
	7(a)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings	As spare parts for vehicles put on the market before 1 July 2005
	7(b)	Vulcanising agents and stabilisers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings containing up to 0.5% lead by weight	As spare parts for vehicles put on the market before 1 July 2006
	7(c)	Bonding agents for elastomers in powertrain applications containing up to 0.5% lead by weight	As spare parts for vehicles put on the market before 1 July 2009

Lead				
	Lead and lead compounds in components			
		8(a)	Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminium capacitors, on component pins and on electronic circuit boards	Vehicles type approved before 1 January 2016 and spare parts for these vehicles
		8(b)	Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass.	Vehicles type approved before 1 January 2011 and spare parts for these vehicles.
		8(c)	Lead in finishes on terminals of electrolyte aluminium capacitors.	Vehicles type approved before 1 January 2013 and spare parts for these vehicles.
		8(d)	Lead used in soldering on glass in mass airflow sensors	Vehicles type approved before 1 January 2015 and spare parts of such vehicles
		8(e)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	
		8(f)	Lead in compliant pin connector systems	
		8(g)	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	
		8(h)	Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1cm2 of projection area and a nominal current density of at least 1 A/mm2 of silicon chip area	
		8(i)	Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing	Vehicles type approved before 1 January 2013 and spare parts for these
		8(j)	Lead in solders for soldering in laminated glazing	
		9	Valve seats	As spare parts for engine types developed before 1 July 2003
		10(a)	Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: -glass in bulbs and glaze of spark plugs, -dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d).	
		10(b)	Lead in PZT based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors	

Lead				
	Lead and lead compounds in components			
		10(c)	Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC	Vehicles type approved before 1 January 2016 and spare parts for these vehicles
		10(d)	Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems	
		11	Pyrotechnic initiators	Vehicles type approved before 1 July 2006 and spare parts for these vehicles
		12	Lead-containing thermoelectric materials in automotive electrical applications to reduce CO2 emissions by recuperation of exhaust heat	Vehicles type approved before 1 January 2019 and spare parts for these vehicles
Hexavalent chromium				
		13(a)	Corrosion preventive coatings	As spare parts for vehicles put on the market before 1 July 2007
		13(b)	Corrosion preventive coatings related to bolt and nut assemblies for chassis applications	As spare parts for vehicles put on the market before 1 July 2008
		14	As an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators in motor caravans up to 0.75 weight -% in the cooling solution except where the use of other cooling technologies is practicable (i.e. available on the market for the application in motor caravans) and does not lead to negative environmental, health and/or consumer safety impacts	
Mercury				
		15(a)	Discharge lamps for headlight application	Vehicles type approved before 1 July 2012 and spare parts for these
		15(b)	Fluorescent tubes used in instrument panel displays	Vehicles type approved before 1 July 2012 and spare parts for these
Cadmium				
		16	Batteries for electrical vehicles	As spare parts for vehicles put on the market before 31 December 2008

Table 3: Glycol ether and its acetates with regards to proven reproductive toxicant.

	Substance	CAS No.
1	2-ethoxyethanol	110-80-5
2	2-ethoxyethyl acetate	111-15-9
3	methyl cellosolve acetate / 2-methoxyethyl acetate	110-49-6
4	2-methoxyethanol	109-86-4
5	diethleneglycol dimethylether	111-96-6

Table 4: Organic brominated solvents with regards to proven reproductive toxicant.

	Substance	CAS No.
1	2-bromopropane	75-26-3

Table 5: Specific amine
(generated due to decomposition of azo group greater than 1)

	Substance	CAS No.
1	4-aminoazobenzene	60-09-3
2	aniline, 2-methoxy-	90-04-0
3	2-naphthylamine	91-59-8
4	3,3'-dichlorobenzidine	91-94-1
5	biphenyl-4-ylamine	92-67-1
6	benzidine	92-87-5
7	ortho-toluidine	95-53-4
8	4-chloro-o-toluidine	95-69-2
9	toluene-2,4-diamine	95-80-7
10	2-methyl-4-(2-tolyldiazenyl)aniline	97-56-3
11	2-methyl-5-nitroaniline	99-55-8
12	4,4'-methylenebis-(2-chlorobenzenamine)	101-14-4
13	4,4'-methylenedianiline	101-77-9
14	4,4'-oxydianiline	101-80-4
15	4-chloroaniline	106-47-8
16	3,3'-dimethoxybenzidine	119-90-4
17	3,3'-dimethylbenzidine	119-93-7
18	6-methoxy-m-toluidine	120-71-8
19	2,4,5-trimethylaniline	137-17-7
20	4,4'-thiodianiline	139-65-1
21	4-methoxy-1,3-phenylenediamine	615-05-4
22	4,4'-methylenedi-o-toluidine	838-88-0

Table 6: Specified phthalic esters

( ) shows other representative names.

	Substance	CAS No.
Specified phthalic esters（Group Ⅰ）		
1	bis(2-ethylhexan-1-yl) phthalate （Bis (2-ethylhexyl) phthalate (DEHP)）	117-81-7
2	dibutan-1-yl phthalate （Dibutyl phthalate (DBP)）	84-74-2
3	benzyl butan-1-yl phthalate （Benzyl butyl phthalate (BBP)）	85-68-7
Specified phthalic esters（Group Ⅱ）		
4	diisononyl phthalate (DINP)	28553-12-0 68515-48-0
5	1,2-benzenedicarboxylic acid diisodecyl ester （di-isodecyl phthalate (DIDP)）	26761-40-0 68515-49-1
6	bis(n-octyl) phthalate (DNOP)	117-84-0

Table 7: PFOS and its related substances

( ) shows other representative names.

	Substance	CAS No.
1	perfluorooctane sulfonate (PFOS)	1763-23-1
2	perfluoroctane sulfonate acid	1763-23-1
3	perfluoroctane sulfonate anion	45298-90-6
4	perfluoro-1-octanesulfonyl fluoride	307-35-7
5	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
6	glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7
7	perfluorooctane sulfonate ammonium salt	29081-56-9
8	perfluorooctane sulfonate lithium salt	29457-72-5
9	tetraethylammoniumheptadecafluoroctansulfonate	56773-42-3
10	PFOS related substances	(Example) 2795-39-3

Table 8: volatile organic compounds (VOC)

	Substance	CAS No.
1	propan-2-ol	67-63-0
2	toluene	108-88-3
3	acetone	67-64-1
4	butyl acetate	123-86-4
5	methanol	67-56-1
6	xyrene	1330-20-7
7	2-butanone	78-93-3
8	dichloromethane	75-09-2
9	styrene	100-42-5
10	ethanol	64-17-5
11	ethylbenzene	100-41-4
12	tetrahydrofuran	109-99-9
13	2-propanol, 1-methoxy-	107-98-2
14	1-butanol	71-36-3
15	chloroform	67-66-3
16	methyl isobutyl ketone	108-10-1
17	heptane	142-82-5
18	ethyl acetate	141-78-6
19	trichloroethylene	79-01-6
20	cyclohexanone	108-94-1

Table 9: REACH Candidate List of SVHC

	Substance	CAS No.
1	anthracene	120-12-7
2	4,4'-diaminodiphenylmethane (MDA)	101-77-9
3	dibutyl phthalate (DBP)	84-74-2
4	cobalt dichloride	7646-79-9
5	diarsenic pentaoxide	1303-28-2
6	diarsenic trioxide	1327-53-3
7	sodium dichromate	7789-12-0 10588-01-9
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
9	bis(2-ethyl(hexyl)phthal a te (DEHP））	117-81-7
10	hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β－HBCDD, γ－HBCDD）	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8
11	alkanes, C10-13, chloro(short chain chlorinated paraffins)	85535-84-8
12	bis (tributyltin) oxide (TBTO)	56-35-9
13	lead hydrogen arsenate	7784-40-9
14	benzyl butyl phthalate (BBP)	85-68-7
15	triethyl arsenate	15606-95-8
16	anthracene oil	90640-80-5
17	anthracene oil, anthracene paste, distn. lights	91995-17-4
18	anthracene oil, anthracene paste, anthracene fraction	91995-15-2
19	anthracene oil, anthracene-low	90640-82-7
20	anthracene oil, anthracene paste	90640-81-6
21	pitch, coal tar, high temp.	65996-93-2
22	aluminiosilicate, refractory ceramic fibres	—
23	zirconia aluminosilicate, refractory ceramic fiber	—
24	2,4-dinitrotoluene	121-14-2
25	diisobutyl phthalate	84-69-5
26	lead chromate	7758-97-6
27	lead chromate molybdate sulphate red (C.I. pigment red 104)	12656-85-8
28	lead sulfochromate yellow (C.I. pigment yellow 34)	1344-37-2
29	tris(2-chloroethyl)phosphate	115-96-8
30	acrylamide	79-06-1
31	trichloroethylene	79-01-6
32	boric acid	10043-35-3 11113-50-1
33	disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
34	tetraboron disodium heptaoxide, hydrate	12267-73-1
35	sodium chromate	7775-11-3
36	potassium chromate	7789-00-6
37	ammonium dichromate	7789-09-5
38	potassium dichromate	7778-50-9

	Substance	CAS No.
39	cobalt(II) sulphate	10124-43-3
40	cobalt(II) dinitrate	10141-05-6
41	cobalt(II) carbonate	513-79-1
42	cobalt(II) diacetate	71-48-7
43	2-methoxyethanol	109-86-4
44	2-ethoxyethanol	110-80-5
45	chromium trioxide	1333-82-0
	Acids generated from chromium trioxide and their oligomers:	—
46	chromic acid	7738-94-5
	dichromic acid	13530-68-2
	Oligomers of chromic acid and dichromic acid	—
47	2-ethoxyethyl acetate	111-15-9
48	strontium chromate	7789-06-2
49	1,2-Benzenedicarbo xylic acid, di-C7-11 -branched and linear alkyl esters (DHNUP)	68515-42-4
50	hydrazine hydrazine	7803-57-8 302-01-2
51	1-methyl-2-pyrrolidone	872-50-4
52	1,2,3-trichloropropane	96-18-4
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6
54	dichromium tris(chromate)	24613-89-6
55	potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9
56	pentazinc chromate octahydroxide	49663-84-5
57	aluminosilicate refractory ceramic fibres (RCF)	AL57
58	zirconia aluminosilicate refractory ceramic fibres (Zr-RCF)	AL58
59	formaldehyde, oligomeric reaction products with aniline	25214-70-4
60	bis(2-methoxyethyl) phthalate	117-82-8
61	2-methoxyaniline; o-anisidine	90-04-0
62	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
63	1,2-dichloroethane	107-06-2
64	bis(2-methoxyethyl) ether	111-96-6
65	arsenic acid	7778-39-4
66	calcium arsenate	7778-44-1
67	trilead diarsenate	3687-31-8
68	N,N-dimethylacetamide	127-19-5
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
70	phenolphthalein	77-09-8
71	lead azide lead diazide	13424-46-9
72	lead styphnate	15245-44-0
73	lead dipicrate	6477-64-1

Appendix 5: Detailed List of Environmentally Hazardous Substances

Number beginning with alphabet in CAS No. column is a code number rather than CAS No.

Substance Group name	
Substance	**CAS №**
ozone depleting substances	
pentachlorotrifluoropropane	165-97-7
2-chloro-1,1,1,2,3,3,3-heptafluoropropane	76-18-6
1-chloro,1-fluoroethane	1615-75-4
clorohexafluoropropane	134308-72-8
2-chloro-1,1,1,3,3,3-hexafluoro-propane(HCFC-226da)	431-87-8
bromodifluoromethane	1511-62-2
tetrabromofluoroethane	HSC261016
tribromodifluoroethane	HSC261017
bromotetrafluoroethane	HSC261029
tribromofluoroethane	HSC261021
hexabromofluoropropane	HSC261039
pentabromodifluoropropane	HSC261040
tetrabromotrifluoropropane	HSC261015
tribromotetrafluoropropane	HSC261019
dibromopentafluoropropane	HSC261012
pentabromofluoropropane	HSC261041
tetrabromodifluoropropane	HSC261014
tribromotrifluoropropane	HSC261020
dibromotetrafluoropropane	HSC261006
bromopentafluoropropane	HSC261038
tetrabromofluoropropane	HSC261013
tribromodifluoropropane	HSC261018
bromotetrafluoropropane	HSC261028
tribromofluoropropane	HSC261022
bromotrifluoropropane	HSC261031
dibromofluoropropane	HSC261011
bromodifluoropropane	HSC261027
methyl bromide / methyl bromide (bromomethane)	74-83-9
bromoethane(ethyl bromide)	74-96-4
trifluoroiodomethane (trifluoromethyl iodide)	2314-97-8
bromofluoromethane	373-52-4
chlorotrifluoroethylene	79-38-9
bromochloromethane / chlorobromomethane	74-97-5
carbon tetrachloride	56-23-5
bromotrifluoromethane / trifluorobromomethane	75-63-8
1,1,1-trichloroethane	71-55-6
trichlorofluoromethane	75-69-4
chlorotrifluoromethane	75-72-9
dichlorodifluorometahne	75-71-8
pentachlorofluoroethane	354-56-3
heptachlorofluoropropane	422-78-6
1,1,1,2,3,3,3-heptachloro-2-fluoropropane（CFC-211ba）	422-81-1
dichlorotetrafluoroethane	1320-37-2
hexachlorodifluoropropane	134452-44-1
bromochlorodifluoromethane / chlorodifluorobromomethane	353-59-3
heptafluoropropyl chloride	422-86-6
monochloropentafluoroethane	76-15-3
pentachlorotrifluoropropane / 1,1,1,3,3-pentachlor-2,2,3-trifluoropropane	2354-06-5
1,2-dibromotetrafluoroethane / dibromotetrafluoroethane (Halon 2402)	124-73-2
1,2-difluorotetrachloroethane	76-12-0
tetrachlorotetrafluoropropane	29255-31-0
1,2,2-trichloropentafluoropropane	1599-41-3
1,2,3-trichloro-1,1,2,3,3-pentafluoropropane	76-17-5
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1
1,2-dichloro-1,1,2,3,3,3-hexafluoropropane	661-97-2
heptachlorofluoropropane	135401-87-5
cryofluorane	76-14-2
trichlorotrifluoroethane	26523-64-8
trichlorotrifluoroethane	354-58-5
1,1-dichlor-1,2,2,2-tetrafluoroethane	374-07-2
pentachlorotrifluoropropane	134237-31-3

Substance Group name	
Substance	**CAS №**
1,1,1-trichloropentafluoropropane	4259-43-2
1,1,1,2-tetrachlor-2,2-difluoroethane	76-11-9
1,1,1,3-tetrachlorotetrafluoropropane	2268-46-4
1,1,1,3,3,3-hexachloro-2,2-difluoropropane	3182-26-1
1,1,1-tribromo-2,2,2-trifluoroethane	354-48-3
1,1-dibromo-1,2,2,2-tetrafluoroethane	27336-23-8
1,1-dibromo-2,2-difluoroethylene	430-85-3
1,2-dibromo-1,1,2-trichloroethane	13749-38-7
1,2-dibromo-1-chloro-1,2,2-trifluoroethane	354-51-8
1,2-dibromotetrachloroethane	630-25-1
1-bromo-1-chloro-2,2-difluoroethylene	758-24-7
2-bromo-1,1-dichloroethylene	5870-61-1
bromodichlorofluoromethane	353-58-2
bromopentafluoroethane	354-55-2
bromotrifluoroethylene	598-73-2
carbon tetrabromide	558-13-4
chlorobromotrifluoroethane	74925-63-6
clorodibromomethane	124-48-1
dibromodichloromethane	594-18-3
dibromotetrafluoroethane	25497-30-7
ethane, 1-bromo-2-chloro-1,1,2-trifluoro- / ethane, 1,2-dibromo-1,1,2-trifluoro-	354-06-3
ethane, 2-bromo-1-chloro-1,1,2-trifluoro-	354-20-1
ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (R)-	51230-17-2
ethane, 2-bromo-2-chloro-1,1,1-trifluoro-, (S)-	51230-18-3
ethane, tribromo-	598-16-3
ethene, tetrabromo-	79-28-7
methane, bromotrichloro-	75-62-7
methane, tribromofluoro-	353-54-8
pentabromoethane	75-95-6
tribromochloromethane	594-15-0
dibromodifluoromethane	75-61-6
dibromodifluoroethane / 1,2-dibromo-1,1-difluoroethane	75-82-1
dibromofluoromethane	1868-53-7
C2H2F2Br2: 1,1-dibromo-2,2-difluoroethane	359-19-3
bromofluoroethane / 1-bromo-2-fluoroethane	762-49-2
dibromopentafluoropropane (HBFC-225 B2)	431-78-7
1-bromo-3-fluoropropane	352-91-0
3-bromo-1,1,1-trifluoropropane	460-32-2
dibromofluoroethane	358-97-4
dibromodifluoropropane / 1,3-dibromo-1,1-difluoropropane	460-25-3
dibromotrifluoroethane / 1,2-dibromo-1,1,2-trifluoroethane	354-04-1
bromotetrafluoroethane(HBFC-124 B1)	124-72-1
dibromotrifluoropropane / 2,3-dibromo-1,1,1-trifluoropropane	431-21-0
C2HFBr4	353-93-5 306-80-9
C2HF2Br3	7304-53-2 677-34-9 353-97-9
C2H2FBr3	598-67-4 420-88-2
bromodifluoroethane / C2H3F2Br: bromo-1,1-difluoroethane	359-07-9
C3HFBr6	AL01-1
C3HF2Br5	AL01-2
C3HF3Br4	AL01-3
C3HF4Br3	666-48-8
C3H2FBr5	AL01-4
C3H2F2Br4	148875-98-3
1,2,2-tribromo-3,3,3-trifluoropropane	421-90-9
1,3-dibromo-1,1,3,3-tetrafluoropropane	460-86-6
C3H2F5Br	422-01-5 677-52-1 677-53-2 22692-16-6 460-88-8

Substance Group name	
Substance	**CAS №**
	679-94-7 26391-11-7 53692-43-6 53692-44-7
tribromodifluoropropane(HBFC-242 B3)	70192-80-2
C3H3FBr4	148875-95-0
1,2,3-tribromo-3,3-difluoropropane	666-25-1
C3H3F4Br	19041-01-1 29151-25-5 679-84-5 460-67-3
C3H3F4Br	70192-71-1 70192-84-6
C3H4FBr3	75372-14-4
C3H5FBr2	453-00-9 1786-38-5 51584-26-0 62135-10-8 62135-11-9
C3H5F2Br	111483-20-6 430-87-5 420-89-3 420-98-4 2195-05-3 461-49-4
bromodifluoroethane / 1-bromo-1,1-difluoroethane	420-47-3
bromohexafluoropropane / 1-bromo-1,1,2,3,3,3-hexafluoropropane	2252-78-0
bromotrifluoroethane / 2-bromo-1,1,1-trifluoroethane / 1,1,1-trifluoro-2-bromoethane	421-06-7
ethene, 2-bromo-1,1-difluoro-	359-08-0
bromofluoropropane / propane, 1-bromo-2-fluoro-	1871-72-3
1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4
1,2,2-trichloro-1,1-difluoroethane	354-21-2
1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
	90454-18-5
1,2-dichloro-1,1-difluoroethane	1649-08-7
1,2-dichloro-1,2-difluoroethane	431-06-1
2-chloro-1,3-difluoropropane	102738-79-4
1-chloro-1,1-difluoropropane(HCFC-262fc)	421-02-3
1,1-dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2
tetrachlorodifluoropropane	127564-82-3
trichlorodifluoropropane	127564-90-3
trichlorotetrafluoropropane	127564-91-4
2,2-dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9
chlorotrifluoroethane	1330-45-6
tetrachlorofluoropropane	134190-49-1
1,1,2,3-tetrachloro-1-fluoropropane(HCFC-241db)	666-27-3
trichlorofluoropropane	134190-51-5
tetrachlorofluoroethane	134237-32-4
trichlorofluorethane	134237-34-6
hexachlorofluoropropane	134237-35-7
pentachlorodifluoropropane	134237-36-8
1,1,1,3,3-pentachloro-2,2-difluoropropane(HCFC-222ca)	422-49-1
1,2,2,3,3-pentachloro-1,1-difluoropropane(HCFC-222aa)	422-30-0
tetrachlorotrifluoropropane	134237-37-9
1,1,3,3-tetrachloro-1,2,2-trifluoropropane(HCFC-223ca)	422-52-6
1,1,1,3-tetrachloro-2,2,3-trifluoropropane(HCFC-223cb)	422-50-4
trichlorotetrafluoropropane	134237-38-0
1,3,3-trichloro-1,1,2,2-tetrafluoropropane(HCFC-224ca)	422-54-8
1,1,3-trichloro-1,1,2,2-tetrafluoropropane(HCFC-224cb)	422-53-7
1,1,1-trichloro-2,2,3,3-tetrafluoropropane(HCFC-224cc)	422-51-7
tetrachlorodifluoropropane	134237-39-1
1,1,1,3-tetrachloro-3,3-difluoropropane(HCFC-232fc)	460-89-9
trichlorotrifluoropropane	134237-40-4
1,1,1-trichloro-3,3,3-trifluoropropane(HCFC-233fb)	7125-83-9

Substance Group name	
Substance	**CAS №**
chloropentafluoropropane	134237-41-5
trichlorodifluoropropane	134237-42-6
1,3,3-trichloro-1,1-difluoropropane(HCFC-242fa)	460-63-9
dichlorotrifluoropropane	134237-43-7
chlorotrifluoropropane	134237-44-8
dichlorofluoropropane	134237-45-9
1,1-dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9
1,3-dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1
1,1-dichloro-1,2-difluoroethane	1842-05-3
dichlorofluoroethane	25167-88-8
dichlorodifluoroethane	25915-78-0
hexachlorofluoropropane	29470-94-8
1,1,1,2,2,3-hexachloro-3-fluoropropane(HCFC-221ab)	422-26-4
tetrachlorotrifluoropropane	29470-95-9
2,3-dichloro-1,1,1-trifluoropropane	338-75-0
trichlorodifluoroethane	41834-16-6
2-chloro-2-fluoropropane(HCFC-271ba)	420-44-0
1-chloro-1-fluoropropane(HCFC-271fb)	430-55-7
1,2-dichloro-1,1,2,3,3-pentafluoropropane	422-44-6
dichloropentafluoropropane	127564-92-5
2,3-dichloro-1,1,1,2,3-pentafluoropropane	422-48-0
1,1-dichloro-2,2,3,3,3-pentafluoropropane	422-56-0
1,2-dichloro-1,1,3,3,3-pentafluoropropane	431-86-7
3-chloro-1,1,1-trifluoropropane	460-35-5
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
1-chloro-1,1,3,3,3-pentafluoropropane	460-92-4
1,3-dichloro-1,1,2,2,3-pentafluoropropane	507-55-1
trichlorotrifluoropropane	61623-04-9
3-chloro-1,1,2,2-tetrafluoropropane(HCFC-244ca)	679-85-6
1-chloro-1,1,2,2-tetrafluoropropane(HCFC-244cc)	421-75-0
1,1,1-trichloro-3,3,3-trifluoropropane	7125-83-9
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,1-dichloro-1-fluoropropane(HCFC-261fc)	7799-56-6
1,2-dichloro-2-fluoropropane(HCFC-261ba)	420-97-3
1,1,3-trichloro-1-fluoropropane	818-99-5
1,1,2-trichloro-1-fluoropropane(HCFC-251dc)	421-41-0
dichlorodifluoropropane	134190-52-6
1,3-dichloro-1,1-difluoropropane(HCFC-252fb)	819-00-1
dichlorofluropropane	127404-11-9
dichlorotetrafluoropropane	127564-83-4
1,2-dichloro-1,2,3,3-tetrafluoropropane(HCFC-234db)	425-94-5
dichlorotrifluoropropane	116890-51-8
1,2-dichloro-1-fluoroethane	430-57-9
1,2-dichloro-1-fluoroethylene	430-58-0
1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6
1-chloro-1,1-difluoroethane	75-68-3
1-chloro-1,2-difluoroethylene	359-04-6
1-chloro-1-fluoroethylene	2317-91-1
1-chloro-2-fluoroethylene	460-16-2
2-chloro-1,1-difluoroethylene	359-10-4
chlorodifluoroethanes	25497-29-4
chlorodifluoromethane	75-45-6
chlorofluoromethane	593-70-4
chlorotetrafluoroethane	63938-10-3
dichlorofluoromethane	75-43-4
dichlorotrifluoroethane	34077-87-7
ethane, 1,1,1-trichloro-2-fluoro-	2366-36-1
ethane, 1,1,2-trichloro-1-fluoro-	811-95-0
ethane, 1,1,2-trichloro-2-fluoro-	359-28-4
1,1-dichloro-1-fluoroethane / ethane, 1,1-dichloro-1-fluoro-	1717-00-6
ethane, 1,2-difluoro-1,1,2-trichloro-	354-15-4
1,1,1-trichloro-2,2-difluoroethane(HCFC-122b)	354-12-1
ethane, 1-chloro-1,2-difluoro-	338-64-7
2,2-dichloro-1,1,1-trifluoroethane / ethane, 2,2-dichloro-1,1,1-trifluoro-	306-83-2

Substance Group name	
Substance	**CAS №**
2-chloro-1,1,1,2-tetrafluoroetahne / ethane, 2-chloro-1,1,1,2-tetrafluoro-	2837-89-0
ethane, chloro-1,1-difluoro-	55949-44-5
ethane, monochlorodifluoro-	338-65-8
trichlorofluoroethane	27154-33-2
chlorodifluoropropane	134190-53-7
1-chloro-2,2-difluoropropane(HCFC-262ca)	420-99-5
chlorofluoroethane	110587-14-9
1-chloro-2-fluoroethane(HCFC-151)	762-50-5
chlorofluoropropane	134190-54-8
chlorohexafluoropropane	28987-04-4
chloropentafluoropropane	108662-83-5
chlorotetrafluoropropane	134190-50-4
chlorotrifluoropropane	26588-23-8
chloro-1,1,1-trifluoroethane	75-88-7
pentachlorodifluoropropane	116867-32-4
pentachlorofluoropropane	134190-48-0
1,1,1,2,3-pentachloro-2-fluoro-propane(HCFC-231bb)	421-94-3
1-chloro-1,1,2-trifluoroethane	421-04-5
1-chloro-1,2,2-trifluoroethane	431-07-2
1,1-dichloro-2-fluoroethane	430-53-5
1,1-dichloro-2,2-difluoroethane	471-43-2
1,1,1,2-tetrachloro-2-fluoroethane	354-11-0
1,1,2,2-tetrachloro-1-fluoroethane	354-14-3
1,1,1,2,2,3,3-heptafluoropropane	2252-84-8
1,1,1,2,3,3-hexafluoropropane	431-63-0
1,1,1,2-tetrafluoroethane	811-97-2
1,1,2,2-tetrafluoroethane	359-35-3
1,1,2-trifluoroethane	430-66-0
1,1-difluoroethane	75-37-6
1,2-difluoroethane	624-72-6
difluoroethane	25497-28-3
difluoromethane	75-10-5
1,1,1-trifluoroethane / ethane, 1,1,1-trifluoro-	420-46-2
ethane, pentafluoro-	354-33-6
ethyl fluoride	353-36-6
methyl fluoride	593-53-3
1,1,1,2,2-pentafluoropropane	1814-88-6
1,1,1,3,3-pentafluoropropane	460-73-1
1,1,1,3,3-pentafluorobutane	406-58-6
1,1,1,2,2,3,4,5,5,5-decafluoropentane / pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	138495-42-8
propane, 1,1,1,2,3,3,3-heptafluoro- / 1,1,1,2,3,3,3-heptafluoropropane	431-89-0
1,1,1,3,3,3-hexafluoropropane / propane, 1,1,1,3,3,3-hexafluoro-	690-39-1
propane, hexafluoro-	27070-61-7
trifluoroethane	27987-06-0
trifluoromethane	75-46-7
vinylidene fluoride	75-38-7
1,1,1,2,2,3-hexafluoro-propane (HFC-236cb)	677-56-5
ozon depletion substances	AL01
greenhouse substances	
perfluoroisobutylene	382-21-8
n-perfluorooctane	307-34-6
octafluorocyclobutane	115-25-3
octafluoropropane	76-19-7
decafluorobutane	355-25-9
tetradecafluorohexane	355-42-0
tetrafluoroethylene	116-14-3
dodecafluoro-pentane	678-26-2
heptane, hexadecafluoro-	335-57-9
hexafluoroethane	76-16-4
tetrafluoromethane	75-73-0
perfluorocarbon greenhouse substances	AL02
1,1,1,2,2,3,4,5,5,5-decafluoropentane / pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	138495-42-8
propane, 1,1,1,2,3,3,3-heptafluoro- / 1,1,1,2,3,3,3-heptafluoropropane	431-89-0
1,1,1,2-tetrafluoroethane	811-97-2

Substance Group name	
Substance	**CAS №**
1,1,1,3,3,3-hexafluoropropane	690-39-1
1,1,1,3,3-pentafluoropropane	HSC680205
1,1,1,4,4,4-hexafluorobutane	407-59-0
1,1,1-trifluoroethane / ethane, 1,1,1-trifluoro-	420-46-2
1,1,2,2,3-pentafluoropropane	679-86-7
1,1,2,2-tetrafluoroethane	359-35-3
1,1,2-trifluoroethane	430-66-0
1,1-difluoroethane	75-37-6
difluoromethane	75-10-5
trifluoromethane	75-46-7
vinylidene fluoride	75-38-7
vinyl fluoride	75-02-5
methyl fluoride	593-53-3
pentafluoroethane	354-33-6
sulfur hexafuoride	2551-62-4
hydrofluorocarbon greenhouse substances	AL03
chloroform	
chloroform / trichloromethane (chloroform)	67-66-3
glycol ether and its acetates	
2-ethoxyethanol	110-80-5
2-ethoxyethyl acetate	111-15-9
methyl cellosolve acetate / 2-methoxyethyl acetate	110-49-6
2-methoxyethanol	109-86-4
diethleneglycol dimethylether	111-96-6
ethanol, 2-(2-methoxyethoxy)-	111-77-3
propanol, 2-methoxy-	1589-47-5
2-butoxyethanol	111-76-2
2-butoxyethyl acetate	112-07-2
2-propanol, 1-methoxy-	107-98-2
2-propyl, 1-methoxy-, acetate	108-65-6
2-propanol, 1-ethoxy-	1569-02-4
propanol, 1(or 2)-ethoxy-, acetate	98516-30-4
glycol ether and its acetate	AL50
brominated solvents	
1-bromopropane	106-94-5
2-bromopropane	75-26-3
brominated solvent	AL51
benzene	
benzen	71-43-2
aldehyde compounds	
formaldehyde	50-00-0
acetaldehyde	75-07-0
chlorinated solvents	
1,2-dichloroethane	107-06-2
cis-1,2-dichloroethene	156-59-2
trans-1,2-dichloroethene	156-60-5
1,3-dichloropropene	542-75-6
1,1,2,2 tetrachloroethane	79-34-5
dichloromethane	75-09-2
pentachloroethane	76-01-7
trichloroethylene	79-01-6
tetrachloroethylene	127-18-4
chloromethyl methyl ether (CMME)	107-30-2
dichloropropanol (1,3-dichloro-2-propanol)	96-23-1
hexachloro-1,3-butadiene (HCBD)	87-68-3
hexachlorocyclohexane, gamma isomer, lindane	58-89-9
pentachlorobenzene	608-93-5
pentachlorophenol,	87-86-5
potassium pentachlorophenate	7778-73-6
sodium pentachlorophenate	131-52-2
zinc bis(pentachlorophenol,ate)	2917-32-0
1,2,3,4-tetrachlorobenzene	634-66-2

Substance Group name	
Substance	**CAS №**
1,2,3,5- tetrachlorobenzene	634-90-2
Benzene, tetrachloro-	12408-10-5
1,2,4,5- tetrachlorobenzene	95-94-3
bis(chloromethyl) ether (BCME)	542-88-1
2,4,5 -trichlorophenol,	95-95-4
2,4,6 -trichlorophenol,	88-06-2
1,2,3 - trichloropropane	96-18-4
1,1 dichloroethylene	75-35-4
1,1,1 trichloroethane	71-55-6
1,1,1,2 tetrachloroethane	630-20-6
1,1,2 trichloroethane	79-00-5
dichloromethane	75-09-2
tetrachloromethane (tetrachlorocarbon)	56-23-5
chloroform / trichloromethane (chloroform)	67-66-3
chlorinated solvent	AL09
cadmium and its compounds	
diethyl cadmium	592-02-9
dimethylcadmium	506-82-1
cadmium chloride monohydrate	35658-65-2
cadmium sulfate tetrahydrate	13477-21-9
antimony, compound with cadmium (2:3)	12014-29-8
boric acid, cadmium salt	51222-60-7
C.I. pigment orange 20	12656-57-4
cadmate(2-), tetrakis(cyano-C)-, dipotassium, (T-4)-	14402-75-6
cadmium	7440-43-9
cadmium acetate	543-90-8
cadmium acrylate	15743-19-8
cadmium arsenide (Cd3As2)	12006-15-4
cadmium bromide	7789-42-6
cadmium bromide, tetrahydrate	13464-92-1
cadmium carbonate	513-78-0
cadmium chloride	10108-64-2
cadmium chloride phosphate (Cd5Cl(PO4)3)	12185-64-7
cadmium chloride phosphate (Cd5Cl(PO4)3), manganese-doped	100402-53-7
cadmium chloride, hydrate (2:5)	7790-78-5
cadmium chromate	14312-00-6
cadmium cyanide (Cd(CN)2)	542-83-6
cadmium diicosanoate	14923-81-0
cadmium dinitrite	7790-83-2
cadmium diricinoleate	13832-25-2
cadmium fluoborate	14486-19-2
cadmium fluoride (CdF2)	7790-79-6
cadmium hexafluorosilicate(2-)	17010-21-8
cadmium hydrogen phosphate	14067-62-0
cadmium hydroxide (Cd(OH)2)	21041-95-2
cadmium iodate	7790-81-0
cadmium iodide	7790-80-9
cadmium mercury telluride ((Cd,Hg)Te)	29870-72-2
cadmium molybdenum oxide (CdMoO4)	13972-68-4
cadmium niobium oxide (Cd2Nb2O7)	12187-14-3
cadmium nitrate	10022-68-1
cadmium nitrate	10325-94-7
cadmium oxide	1306-19-0
cadmium oxide (CdO), solid solution with calcium oxide and titanium oxide (TiO2), praseodymium-	101356-99-4
cadmium oxide (CdO), solid solution with magnesium oxide, tungsten oxide (WO3) and zinc oxide	102110-30-5
cadmium peroxide (Cd(O2))	12139-22-9
cadmium phosphide (Cd3P2)	12014-28-7
cadmium propionate	16986-83-7
cadmium selenide (CdSe)	1306-24-7
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped	101357-00-0
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped	101357-01-1
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide,	101357-02-2

Substance Group name	
Substance	**CAS №**
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped	101357-03-3
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped	101357-04-4
cadmium selenide sulfide (Cd(Se,S))	12626-36-7
cadmium selenide sulfide (Cd2SeS)	12214-12-9
cadmium selenide sulfide (CdSe0.53S0.47)	71243-75-9
cadmium selenide sulfide, (Cd2SeS)	12213-70-6
cadmium selenide sulphide	11112-63-3
cadmium stearate	2223-93-0
cadmium succinate	141-00-4
cadmium sulfate	10124-36-4
cadmium sulfate, hydrate	7790-84-3
cadmium sulfide	1306-23-6
cadmium sulphite	13477-23-1
cadmium tantalum oxide (CdTa2O6)	12292-07-8
cadmium telluride (CdTe)	1306-25-8
cadmium titanium oxide (CdTiO3)	12014-14-1
cadmium tungsten oxide (CdWO4)	7790-85-4
cadmium vanadium oxide (CdV2O6)	16056-72-7
cadmium zinc sulfide	11129-14-9
cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2
cadmium zirconium oxide (CdZrO3)	12139-23-0
Lauric acid, barium cadmium salt	15337-60-7
carbonic acid, cadmium salt	93820-02-1
diboron tricadmium hexaoxide	13701-66-1
dicadmium hexakis(cyano-C)ferrate(4-)	13755-33-4
diphosphoric acid, barium cadmium salt	37131-86-5
diphosphoric acid, cadmium salt	19262-93-2
diphosphoric acid, cadmium salt (1:2)	15600-62-1
dipotassium tetrachlorocadmate(2-)	20648-91-3
phosphoric acid, ammonium cadmium salt (1:1:1)	14520-70-8
phosphoric acid, cadmium salt	13847-17-1
phosphoric acid, cadmium salt (2:3)	13477-17-3
propanoic acid, cadmium salt	16986-83-7
selenic acid, cadmium salt (1:1)	13814-62-5
selenious acid, cadmium salt (1:1)	13814-59-0
silicic acid (H2SiO3), cadmium salt (1:1)	13477-19-5
sulfamic acid, cadmium salt (2:1)	14017-36-8
telluric acid (H2TeO3), cadmium salt (1:1)	15851-44-2
telluric acid (H2TeO4), cadmium salt (1:1)	15852-14-9
tetradecanoic acid, cadmium salt	10196-67-5
cadmiumbis(diethyldithiocarbamat)	14239-68-0
cadmium(+2) cation diformate	4464-23-7
cadmium Litophone Yellow	90604-90-3
cadmium sulfoselenide red	58339-34-7
cadmium zinc litophone yellow	90604-89-0
cadmium mercury sulfide	1345-09-1
cadmium zink sulfide yellow	8048-07-5
nonanoic acid, branched, cadmium salt	93686-40-9
cadmium compounds	AL10
mercury and its compounds	
alkylmercury	HSC130112
mercuric chloride	33631-63-9
(2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-	55728-51-3
(2-carboxy-m-tolyl)hydroxymercury, monosodium salt	52795-88-7
(2-carboxyphenyl)hydroxymercury	14066-61-6
(acetato-O)ethylmercury	109-62-6
(acetato-O)methylmercury	108-07-6
(bromodichloromethyl)phenylmercury	3294-58-4
(dihydroxyphenyl)phenylmercury	27360-58-3
(lactato-O1,O2)mercury	18918-06-4
(maleoyldioxy)bis[phenylmercury]	2701-61-3
(metaborato-O)phenylmercury	31224-71-2

Substance Group name	
Substance	**CAS №**
(phenylmercurio)urea	2279-64-3
[(2-hydroxyethyl)amino]phenylmercury acetate	61792-06-1
[.mu.-[(oxydiethylene but-2-enedioato)(2-)]]diphenyldimercury	94070-92-5
[.mu.-[[4,4'-(oxydiethylene) bis(dodecenylsuccinato)](2-)]]diphenyldimercury	93882-20-3
[.mu.-[metasilicato(2-)-O:O]]bis(2-methoxyethyl)dimercury	19367-79-4
[.mu.-[orthoborato(2-)-O:O']]diphenyldimercury	6273-99-0
[2,2',2"-nitrilotri(ethanol)-N,O,O',O"]phenylmercury lactate	23319-66-6
[2-ethylhexyl hydrogen maleato-O']phenylmercury	27605-30-7
[benzoato(2-)-C2,O1]mercury	5722-59-8
[naphthoato(1-)-O]phenylmercury	31632-68-5
2-(ethylmercuriothio)benzoic acid	148-61-8
2-ethoxyethylmercury acetate	124-08-3
2-ethoxyethylmercury chloride	124-01-6
2-hydroxy-5-(1,1,3,3-tetramethylbutyl)phenylmercury acetate	584-18-9
2-methoxyethylmercury chloride	123-88-6
6-methyl-3-nitrobenzoxamercurate	133-58-4
barium tetraiodomercurate	10048-99-4
bis(5-oxo-DL-prolinato-N1,O2)mercury	94276-38-7
bis(5-oxo-L-prolinato-N1,O2)mercury	94481-62-6
bis(acetato-O)[.mu.-[1,3-dioxane-2,5-diylbis(methylene)-c:c',O,O']]dimercury	84029-43-6
bis(lactato-O1,O2)mercury	18917-83-4
bis(trichloromethyl)mercury	6795-81-9
bis[(+)-lactato]mercury	33724-17-3
bis[(trimethylsilyl)methyl]mercury	13294-23-0
bromo(2-hydroxypropyl)mercury	18832-83-2
bromoethylmercury	107-26-6
bromomethylmercury	506-83-2
bromophenylmercury	1192-89-8
chlormerodrin	62-37-3
chloro(hydroxyphenyl)mercury	1320-80-5
chloro(o-hydroxyphenyl)mercury	90-03-9
chloro[p-[(2-hydroxy-1-naphthyl)azo]phenyl]mercury	3076-91-3
chloro-2-thienylmercury	5857-39-6
chloro-m-tolylmercury	5955-19-1
chloro-o-tolylmercury	2777-37-9
cobaltate(2-), tetrakis(thiocyanato-N)-, mercury(2+) (1:1), (T-4)-	27685-51-4
cyclohexanebutanoic acid, mercury(2+) salt	62638-02-2
diammonium tetrachloromercurate	33445-15-7
diethylmercury	627-44-1
dihydrogen [orthoborato(3-)-O]phenylmercurate(2-)	102-98-7
diiodo(5-iodopyridin-2-amine-N1)mercury	93820-20-3
dimercury amidatenitrate	1310-88-9
dimercury difluoride	13967-25-4
dimercury diiodide	15385-57-6
dimercury(I) oxalate	2949-11-3
dimethyl[.mu.-[sulphato(2-)-O:O']]dimercury	3810-81-9
dimethylmercury	593-74-8
di-o-tolylmercury	616-99-9
diphenyl[.mu.-[(tetrapropenyl)succinato(2-)-O:O']]dimercury	27236-65-3
diphenylmercury	587-85-9
disodium tetra(cyano-C)mercurate(2-)	15682-88-9
disuccinimidomercury	584-43-0
ethyliodomercury	2440-42-8
ethylmercuric chloride	107-27-7
ethylmercuric phosphate	2235-25-8
fluorescein mercuric acetate	3570-80-7
hexanoic acid, 2-ethyl-, mercury(2+) salt	13170-76-8
hydrargaphen	14235-86-0
hydrogen [metasilicato(2-)-O](2-methoxyethyl)mercurate(1-)	64491-92-5
hydrogen .mu.-hydroxy[.mu.-[orthoborato(3-)-O:O']]diphenyldimercurate(1-)	94277-53-9
hydrogen [3-[(.alpha.-carboxylato-o-anisoyl)amino]-2-hydroxypropyl]hydroxymercurate(1-)	26552-50-1
iodomethylmercury	143-36-2
lactatophenylmercury	122-64-5
meralein sodium	4386-35-0

Substance Group name	
Substance	**CAS №**
mercaptomerin sodium	21259-76-7
mercuderamide	525-30-4
mercurate(1-), (4-carboxylatophenyl)chloro-, hydrogen	59-85-8
mercurate(1-), (4-carboxylatophenyl)hydroxy-, sodium	138-85-2
mercurate(1-), triiodo-, hydrogen, compound with 3-methyl-2(3H)-benzothiazolimine (1:1)	72379-35-2
mercurate(2-), tetrachloro-, dipotassium, (T-4)-	20582-71-2
mercurate(2-), tetraiodo-, (T-4)-, dihydrogen, compound with 5-iodo-2-pyridinamine (1:2)	63325-16-6
mercurate(2-), tetraiodo-, dicopper(1+), (T-4)-	13876-85-2
mercury di(acetate) / mercuric acetate	1600-27-7
mercuric arsenate	7784-37-4
mercuric benzoate	583-15-3
mercury dibromide / mercuric bromide	7789-47-1
mercury dichloride / mercuric chloride	7487-94-7
mercuric cyanide	592-04-1
mercury diiodide / mercuric iodide	7774-29-0
mercuric nitrate	10045-94-0
mercury oxide / mercuric oxide	21908-53-2
mercuric oxycyanide	1335-31-5
mercuric potassium cyanide	591-89-9
mercuric subsulfate	1312-03-4
mercury sulphate / mercuric sulfate	7783-35-9
mercuric thiocyanate	592-85-8
mercurobutol	498-73-7
mercurous acetate	631-60-7
mercurous azide	38232-63-2
mercurous chloride	7546-30-7
mercurous iodide	7783-30-4
mercurous nitrate	10415-75-5
mercurous oxide	15829-53-5
mercurous sulfate	7783-36-0
mercury	7439-97-6
mercury (I) chromate	13465-34-4
mercury (I) nitrate	14836-60-3
mercury (II) chromate	13444-75-2
mercury (II) nitrate, monohydrate	7783-34-8
mercury acetate	592-63-2
mercury acetylide	68833-55-6
mercury ammonium chloride	10124-48-8
mercury bis(4-chlorobenzoate)	15516-76-4
mercury bis(trifluoroacetate)	13257-51-7
mercury bromide (Hg2Br2)	15385-58-7
mercury bromide (HgBr)	10031-18-2
mercury chloride	10112-91-1
mercury dichromate	7789-10-8
mercury diiodate	7783-32-6
mercury dipotassium tetrathiocyanate	14099-12-8
mercury disilver tetraiodide	7784-03-4
mercury distearate, pure	645-99-8
mercury fluoride	27575-47-9
mercury fluoride (HgF2)	7783-39-3
mercury gluconate	63937-14-4
mercury nitride	12136-15-1
mercury oleate	1191-80-6
mercury salicylate	5970-32-1
mercury selenide (HgSe)	20601-83-6
mercury silver iodide	12344-40-0
mercury succinate	589-65-1
mercury sulfide (HgS)	1344-48-5
mercury telluride (HgTe)	12068-90-5
mercury thallium dinitrate	94022-47-6
mercury(1+) bromate	13465-33-3
mercury(1+) ethyl sulphate	71720-55-3
mercury(1+) trifluoroacetate	2923-15-1
mercury(1+), amminephenyl-, acetate	22450-90-4

Substance Group name	
Substance	**CAS №**
mercury(2+) (9Z,12Z)-octadeca-9,12-dienoate	7756-49-2
mercury(2+) chloroacetate	26719-07-3
mercury(2+), bis(2,4,6-tri-2-pyridinyl-1,3,5-triazine-N1,N2,N6)-, (OC-6-1'2)-	53010-52-9
mercury(II) oxalate	3444-13-1
mercury(II) potassium iodide	7783-33-7
mercury, (2-ethylhexanoato-O)(1-methoxycyclohexyl)-	103332-13-4
mercury, (1-methoxycyclohexyl)(neodecanoato-O)-	103369-15-9
mercury, (1-methoxyethyl)(9-octadecenoato-O)-,	104325-07-7
mercury, (1-methoxycyclohexyl)(9-octadecenoato-O)-,	104325-08-8
mercury, (1-methoxyethyl)(neodecanoato-O)-	104335-53-7
mercury, (2-ethylhexanoato-O)(1-methoxyethyl)	104339-46-0
mercury, (2',7'-dibromo-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-4'-yl)hydroxy-, disodium salt	129-16-8
mercury, (2-ethylhexanoato-O)phenyl-	13302-00-6
mercury, (9-octadecenoato-O)phenyl-, (Z)-	104-60-9
mercury, (acetato-O)(2-hydroxy-5-nitrophenyl)-	63468-53-1
mercury, (acetato-O)(4-aminophenyl)-	6283-24-5
mercury, (acetato-O)[3-(chloromethoxy)propyl-C,O]-	5954-14-3
mercury, (acetato-O)[4-[[4-(dimethylamino)phenyl]azo]phenyl]-	19447-62-2
mercury, (acetato-O)diamminephenyl-, (T-4)-	68201-97-8
mercury, (neodecanoato-O)phenyl-	26545-49-3
mercury, [.mu.-[dodecylbutanedioato(2-)-O:O']]diphenyldi-	24806-32-4
mercury, [2,5-dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dionato(2-)-O1,O6]-	33770-60-4
mercury, bis(4-methylphenyl)-	537-64-4
mercury, bis(acetato-O)(benzenamine)-	63549-47-3
mercury, bis(phenyldiazenecarbothioic acid 2-phenylhydrazidato-N2,S)-, (T-4)-	14783-59-6
mercury, chloro(2-hydroxy-5-nitrophenyl)-	24579-90-6
mercury, chloro(4-hydroxyphenyl)-	623-07-4
mercury, chloro(4-methylphenyl)-	539-43-5
mercury, chloro(ethanethiolato)-	1785-43-9
mercury, chloro[2-(2-cyclohexen-1-yl)-3-benzofuranyl]-	90584-88-6
mercury, chloro[p-(2,4-dinitroanilino)phenyl]-	15785-93-0
mercury, compound with sodium (2:1)	12055-37-7
mercury, compound with sodium (4:1)	57363-77-6
mercury, compound with titanium (1:3)	11083-41-3
mercury, dibutyl-	629-35-6
mercury, iodo(iodomethyl)-	141-51-5
mercury, methyl(8-quinolinolato-N1,O8)-	86-85-1
mercury, phenyl(phenyldiazenecarbothioic acid 2-phenylhydrazidato)-	56724-82-4
mercury, phenyl(propanoato-O)-	103-27-5
mercury, phenyl(trichloromethyl)-	3294-57-3
mercurymethylchloride	115-09-3
mersalyl	492-18-2
mersalyl acid	486-67-9
methoxyethylmercuric acetate	151-38-2
methyl mercury dicyandiamide	502-39-6
methyl(pentachlorophenol,ato)mercury	5902-76-1
methylmercury	22967-92-6
methylmercury benzoate	3626-13-9
methylmercury hydroxide	1184-57-2
n-(ethylmercuric)-p-toluenesulphonannilide	517-16-8
naphthenic acids, mercury salts	1336-96-5
nitric acid, mercury(2+) salt, hemihydrate	13465-31-1
otimerate sodium	16509-11-8
perchloric acid, mercury(2+) salt	7616-83-3
phenyl(quinolin-8-olato-N1,O8)mercury	14354-56-4
phenyl(tribromomethyl)mercury	3294-60-8
phenylmercuric acetate	62-38-4
phenylmercuric hydroxide	100-57-2
phenylmercuric nitrate	55-68-5
phenylmercury benzoate	94-43-9
phenylmercury chloride	100-56-1
phenylmercury dimethyldithiocarbamate	32407-99-1
phenylmercury hydroxide--phenylmercury nitrate	8003-05-2

Substance Group name	
Substance	**CAS №**
phenylmercury salicylate	28086-13-7
phenylmercury stearate	104-59-6
phosphoric acid, mercury salt	10451-12-4
potassium triiodomercurate(1-)	22330-18-3
sodium [3-[[(3-carboxylatopropionamido)carbonyl]amino]-2-methoxypropyl]hydroxymercurate(1-)	7620-30-6
sodium 4-chloromercuriobenzoate	3198-04-7
sodium o-(ethylmercurithio)benzoate	54-64-8
sodium timerfonate	5964-24-9
tetrakis(acetato-O)[.mu.4-(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',4',5',7'-tetrayl)]tetramercury	54295-90-8
trimercury biscitrate	18211-85-3
cadmium mercury sulfide	1345-09-1
mercury, (2-mercaptoacetamidato-O,S)methyl	7548-26-7
mercury-difulminate	628-86-4
mercury compounds	AL11
lead and its compounds	
lead hydride	14452-81-4
(2-ethylhexanoato-O)(isodecanoato-O)lead	94246-92-1
(2-ethylhexanoato-O)(isononanoato-O)lead	94246-91-0
(2-ethylhexanoato-O)(isooctanoato-O)lead	94246-90-9
(2-ethylhexanoato-O)(neodecanoato-O)lead	94246-93-2
(isodecanoato-O)(isononanoato-O)lead	94246-86-3
(isodecanoato-O)(isooctanoato-O)lead	94246-85-2
(isodecanoato-O)(neodecanoato-O)lead	94246-87-4
(isononanoato-O)(isooctanoato-O)lead	94246-84-1
(isononanoato-O)(neodecanoato-O)lead	94481-58-0
(neononanoato-O)(neoundecanoato-O)lead	93894-64-5
.alpha.-D-glucopyranose, 1-(dihydrogen phosphate), lead salt	68901-12-2
[.mu.-(4,6-dinitroresorcinolato(2-)-O1,O3)]dihydroxydilead	84837-22-9
[.mu.-[[5,5'-azobis[1H-tetrazolato]](2-)]]dihydroxydilead	94015-57-3
1,2,3-propanetricarboxylic acid, 2-hydroxy-, lead salt	14450-60-3
1,2,3-propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3)	512-26-5
1,2,3-propanetricarboxylic acid, 2-hydroxy-, lead(2+) salt (2:3), trihydrate	6107-83-1
1,2-benzenedicarboxylic acid, lead(2+) salt	18608-34-9
1,2-benzenedicarboxylic acid, lead(2+) salt, basic	90193-83-2
1,3,5,7,9-pentaoxa-2.lambda.2,4.lambda.2,6.lambda.2,8.lambda.2-tetraplumbacyclotridec-11-ene-	12275-07-9
1,3,5-triazine-2,4,6(1H,3H,5H)-trione, lead salt	54554-36-8
1,3-benzenediol, 2,4,6-trinitro-, lead salt	15245-44-0
1,3-benzenediol, nitro-, lead(2+) salt (1:1)	70268-38-1
2,4-Cyclohexadien-1-one, 3,5,6-trihydroxy-4,6-bis(3-methyl-2-butenyl)-2-(3-methyl-2-oxobutyl)-,	68901-11-1
2-butenedioic acid (E)-, lead salt	13698-55-0
2-butenedioic acid (E)-, lead(2+) salt, basic	90268-59-0
2-butenedioic acid (Z)-, lead(2+) salt, basic	90268-66-9
2-propenoic acid, 2-methyl-, lead salt, basic	90552-19-5
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-	68155-47-5
3-(triphenylplumbyl)-1H-pyrazole	51105-45-4
7,11-Metheno-11H,13H-tetrazolo[1,5-c][1,7,3,5,2,6]dioxadiazadiplumbacyclododecine, 5,5,13,13-tetradehydro-4,5-dihydro-4,8,10,15-tetranitro-	19651-80-0
7-methyloctanoic acid, lead salt	97952-39-1
9-hexadecenoic acid, lead(2+) salt, (Z)-, basic	90388-15-1
9-octadecenoic acid (Z)-, lead salt	15347-55-4
9-octadecenoic acid (Z)-, lead salt, basic	90459-88-4
acetic acid, lead salt, basic	51404-69-4
acetoxytributylplumbane	2587-82-8
acetoxytrimethylplumbane	5711-19-3
acetoxytriphenylplumbane	1162-06-7
arsenic acid, lead (4+) salt	53404-12-9
basic lead sulfite	12608-25-2
benzenesulfonic acid, 4-C10-13-sec-alkyl derivitives, lead(2+) salts	84961-75-1
bis(diethyldithiocarbamato-S,S')lead	17549-30-3
bis(o-acetoxybenzoato)lead	62451-77-8
bis(pentane-2,4-dionato-O,O')lead	15282-88-9
bismuth lead ruthenium oxide	65229-22-3

Substance Group name	
Substance	**CAS №**
bismuth, compound with lead (1:1)	12048-28-1
butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, lead(2+) salt (1:1)	815-84-9
carbamodithioic acid, ethylphenyl-, lead(2+) salt	93892-65-0
carbonic acid, lead(2+) salt	25510-11-6
castor oil, dehydrated, polymer with rosin, calcium lead zinc salt	68604-05-7
chlorotrimethylplumbane	1520-78-1
chlorotriphenylplumbane	1153-06-6
lead sulfochromate yellow / chrome yellow (lead chromate pigment)	1344-37-2
chromium lead oxide	11119-70-3
chromium lead oxide sulfate, silica-modified	116565-74-3
copper, .beta.-resorcylate salicylate lead complexes	68411-07-4
cyclohexanebutanoic acid, lead(2+) salt	62637-99-4
decanoic acid, branched, lead salts	90342-24-8
decanoic acid, lead salt	20403-42-3
diacetoxydiphenylplumbane	6928-68-3
diamyldithiocarbamate, lead	109707-90-6
diantimony lead tetroxide	16450-50-3
dibasic lead stearate	56189-09-4
dibismuth dilead tetraruthenium tridecaoxide	11116-83-9
dilead chromate dihydroxide	12017-86-6
dilead dirhodium heptaoxide	37240-96-3
diphenyllead dichloride	2117-69-3
diplumbane, hexaethyl-	2388-00-3
diplumbane, hexaphenyl-	3124-01-4
docosanoic acid, lead salt	3249-61-4
dodecanoic acid, lead salt, basic	90342-56-6
dodecanoic acid, lead(2+) salt	15773-55-4
fatty acids, C12-18, lead salts	68131-60-2
fatty acids, C14-26, lead salts	93165-26-5
fatty acids, C16-18, lead salts	91031-62-8
fatty acids, C18-24, lead salts	84776-54-5
fatty acids, C4- 20-branched, lead salts	125328-49-6
fatty acids, C6- 19-branched, lead salts	91002-20-9
fatty acids, C8-10, lead salts	91031-61-7
fatty acids, C8-10-branched, lead salts	85049-42-9
fatty acids, C8-10-branched, lead salts, basic	68409-79-0
fatty acids, C8-12, lead salts	84776-53-4
fatty acids, C8-18 and C18-unsaturated, lead salts	84776-36-3
fatty acids, C8-9, lead salts	91031-60-6
fatty acids, C9-11-branched, lead salts	81412-57-9
fatty acids, castor-oil, hydrogenated, lead salts	91697-36-8
fatty acids, coco, lead salts	92044-89-8
fatty acids, tall-oil, lead manganese salts	61788-53-2
fatty acids, tall-oil, lead salts	61788-54-3
fatty acids, tallow, reaction products with lead oxide	94349-78-7
flue dust, lead blast furnace	70514-05-5
formic acid, lead salt	7056-83-9
gilsonite, polymer with linseed oil, lead salt	68989-89-9
glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, lead(2+) sodiumsalt (1:1:2)	22904-40-1
hafnium lead trioxide	12029-23-1
hexacosanoic acid, lead salt	94006-20-9
hexadecanoic acid, lead salt, basic	90388-09-3
hexadecanoic acid, lead(2+) salt, basic	90388-10-6
hexanoic acid, 2-ethyl-, lead(2+) salt	301-08-6
hexanoic acid, 3,5,5-trimethyl-, lead salt	23621-79-6
hydroxy(neodecanoato-O)lead	71753-04-3
iron lead oxide (Fe12PbO19)	12023-90-4
isodecanoic acid, lead salt, basic	90431-14-4
isodecanoic acid, lead(2+) salt, basic	91671-82-8
isononanoic acid, lead salt	27253-41-4
isononanoic acid, lead salt, basic	90431-21-3
isooctanoic acid, lead salt	64504-12-7
isooctanoic acid, lead salt, basic	90431-26-8
isooctanoic acid, lead(2+) salt, basic	91671-83-9

Substance Group name	
Substance	**CAS №**
isoundecanoic acid, lead(2+) salt, basic	91671-84-0
lauric acid, lead salt	15306-30-6
leach residues, lead slag	69029-71-6
lead	7439-92-1
lead (II) acetate, trihydrate	6080-56-4
lead (II) methylthiolate	35029-96-0
lead (IV) acetate	546-67-8
lead 12-hydroxyoctadecanoate	65127-78-8
lead 198	16646-00-7
lead 199	27486-00-6
lead 2,4-dihydroxybenzoate	20936-32-7
lead 200	16645-99-1
lead 201	17239-87-1
lead 202	15752-86-0
lead 203	14687-25-3
lead 205	14119-28-9
lead 209	14119-30-3
lead 210	14255-04-0
lead 211	15816-77-0
lead 212	15092-94-1
lead 214	15067-28-4
lead 2-ethylhexoate	16996-40-0
lead 3-(acetamido)phthalate	93839-98-6
lead 5-nitroterephthalate	60580-60-1
lead acetate	15347-57-6
lead acetate	301-04-2
lead acrylate	14466-01-4
lead alloy, dross	69011-59-2
lead alloy, Pb,Sn, dross	69011-60-5
lead antimonate	13510-89-9
lead antimonide	12266-38-5
lead arsenate	3687-31-8
lead arsenate (1:1) / lead arsenate	7784-40-9
lead arsenate (Pb3(AsO4)2)	10102-48-4
lead arsenate, unspecified	7645-25-2
lead arsenite	10031-13-7
lead azide	13424-46-9
lead benzoate	15907-04-7
lead bis(12-hydroxystearate)	58405-97-3
lead bis(2-ethylhexanolate)	93840-04-1
lead bis(3,5,5-trimethylhexanoate)	35837-70-8
lead bis(5-oxo-DL-prolinate)	85392-78-5
lead bis(5-oxo-L-prolinate)	85392-77-4
lead bis(isononanoate)	52847-85-5
lead bis(isoundecanoate)	93965-29-8
lead bis(nonylphenol,ate)	72586-00-6
lead bis(piperidine-1-carbodithioate)	41556-46-1
lead bis(p-octylphenol,ate)	84394-98-9
lead bis(tetracosylbenzenesulphonate)	85865-91-4
lead bis(tricosanoate)	93966-37-1
lead bis[didodecylbenzenesulphonate]	85865-92-5
lead borate	14720-53-7
lead b-resorcylate	41453-50-3
lead bromide (PbBr2)	10031-22-8
lead carbonate	598-63-0
lead carbonate hydroxide	1319-46-6
lead chloride	7758-95-4
lead chloride (V.A.N.)	12612-47-4
lead chloride oxide	12205-72-0
lead chromate	7758-97-6
lead chromate oxide	18454-12-1
lead chromate silicate	11113-70-5
lead chromate silicate (Pb3(CrO4)(SiO4))	69011-07-0
lead chromate sulfate (Pb9(CrO4)5(SO4)4)	51899-02-6

Substance Group name	
Substance	**CAS №**
lead cyanamidate	20890-10-2 20837-86-9 35112-70-0
lead cyanide	592-05-2
lead dibenzoate	873-54-1
lead dibromate	34018-28-5
lead dibutanolate	65119-94-0
lead dibutyrate	819-73-8
lead didocosanoate	29597-84-0
lead dihexanoate	15773-53-2
lead dilactate	18917-82-3
lead dilinoleate	33627-12-2
lead dimethyldithiocarbamate	19010-66-3
lead dimyristate	32112-52-0
lead dipalmitate	15773-56-5
lead diphosphinate	10294-58-3
lead dipicrate	6477-64-1
lead dipropionate	814-70-0
lead disulphamidate	13767-78-7
lead disulphide	12137-74-5
lead diundec-10-enoate	94232-40-3
lead fluoborate	13814-96-5
lead fluoride	7783-46-2
lead fluoride hydroxide	97889-90-2
lead hexafluorosilicate / lead fluorosilicate	25808-74-6
lead formate	811-54-1
lead germanate	12435-47-1
lead hexafluorosilicate	1310-03-8
lead hydroxide	19783-14-3 39345-91-0
lead hydroxide nitrate	12268-84-7
lead hydroxysalicylate	87903-39-7
lead icosanoate	94266-32-7
lead icosanoate (1:2)	94266-31-6
lead iodate	25659-31-8
lead iodide	10101-63-0
lead isophthalate	38787-87-0
lead linoleate	16996-51-3
lead malate	816-68-2
lead maleate	19136-34-6
lead methacrylate	1068-61-7
lead methacrylate	52609-46-8
lead molybdate	10190-55-3
lead oxide / lead monoxide	1317-36-8
lead myristate	20403-41-2
lead naphthalate	50825-29-1
lead naphthenate	61790-14-5
lead neobate	12034-88-7
lead neodecanoate	27253-28-7
lead nitrate	10099-74-8
lead nitroresorcinate	51317-24-9
lead oleate	1120-46-3
lead oxalate	814-93-7
lead oxide	1335-25-7
dilead oxide (Pb2O)	12059-89-1
lead oxide (PbO), lead-contg.	68411-78-9
lead oxide (PbO), retort	69029-53-4
lead oxide phosphonate (Pb3O2(HPO3))	12141-20-7
lead oxide phosphonate, hemihydrate	1344-40-7
lead oxide sulfate	12765-51-4
lead oxide sulfate (Pb2O(SO4))	12036-76-9
lead oxide sulfate (Pb4O3(SO4))	12202-17-4
lead oxide sulfate (Pb5O4(SO4))	12065-90-6
lead palmitate	19528-55-3

Substance Group name	
Substance	**CAS №**
lead pentadecanoate	93966-74-6
lead perchlorate	13637-76-8
lead dioxide / lead peroxide	1309-60-0
lead phosphate	7446-27-7
lead phthalate	16183-12-3
lead phthalate	6838-85-3
lead picrate	25721-38-4
lead propionate	42558-73-6
lead pyrophosphate	13453-66-2
lead ruthenium oxide (PbRuO3)	37194-88-0
lead sebacate	29473-77-6
lead selenate	7446-15-3
lead selenide	12069-00-0
lead selenite	7488-51-9
lead silicate	11120-22-2
lead silicate	13566-17-1
lead silicate	22569-74-0
lead silicate sulfate	12687-78-4
lead silicate sulfate	67711-86-8
lead stearate	7428-48-0
lead stearate dibasic	52652-59-2
lead styphnate	63918-97-8
lead subacetate	1335-32-6
lead succinate	1191-18-0
lead sulfate	15739-80-7
lead sulfate	7446-14-2
lead sulfate, tribasic	12397-06-7
lead sulfide / lead sulfide (PbS)	1314-87-0
lead sulfomolybdochromate, silica encapsulated	116565-73-2
lead tantalate	12065-68-8
lead telluride	1314-91-6
lead tellurite	13845-35-7
lead tetrachloride	13463-30-4
lead tetracosanoate	93966-38-2
lead(II,IV) oxide / lead tetraoxide	1314-41-6
lead thiocyanate	592-87-0
lead thiosulfate	13478-50-7
lead tin oxide (PbSnO3)	12036-31-6
lead titanate / lead titanium oxide (PbTiO3)	12060-00-3
lead titanium zirconium oxide / lead titanium zirconium oxide (Pb(Ti,Zr)O3)	12626-81-2
lead trioxide	1314-27-8
lead tungsten oxide	7759-01-5
lead tungsten oxide	12737-98-3
lead uranate pigment	85536-79-4
lead vanadate	10099-79-3
lead zirconate	12060-01-4
lead(2+) (R)-12-hydroxyoleate	13094-04-7
lead(2+) (Z)-hexadec-9-enoate	93858-24-3
lead(2+) 2,4-dinitroresorcinolate	13406-89-8
lead(2+) 4-(1,1-dimethylethyl)benzoate	85292-77-9
lead(2+) 4,4'-isopropylidenebisphenol,ate	93858-23-2
lead(2+) 4,6-dinitro-o-cresolate	65121-76-8
lead(2+) acrylate	867-47-0
lead(2+) decanoate	15773-52-1
lead(2+) heptadecanoate	63399-94-0
lead(2+) isohexadecanoate	95892-13-0
lead(2+) isooctadecanoate	70727-02-5
lead(2+) neodecanoate	71684-29-2
lead(2+) neononanoate	93894-48-5
lead(2+) neoundecanoate	93894-49-6
lead(2+) octanoate	7319-86-0
lead(4+) stearate	7717-46-6
lead(II) fumarate	71686-03-8
lead(II) isodecanoate	84852-34-6

Substance Group name	
Substance	**CAS №**
lead(II) isooctanoate	93981-67-0
lead(II) maleate	17406-54-1
lead(IV) fluoride	7783-59-7
lead, (2-methyl-4,6-dinitrophenol,ato-O1)(nitrato-O)-.mu.-oxodi-, monohydrate	79357-62-3
lead, [.mu.-[1,2-benzenedicarboxylato(2-)-O1:O2]]di-.mu.-oxotri-, cyclo-	17976-43-1
lead, [1,2-benzenedicarboxylato(2-)]dioxotri-	69011-06-9
lead, [1,2-benzenedicarboxylato(2-)]oxodi-	57142-78-6
lead, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	15187-16-3
lead, 2-ethylhexanoate isodecanoate complexes, basic	90431-30-4
lead, 2-ethylhexanoate isononanoate complexes, basic	90431-31-5
lead, 2-ethylhexanoate isooctanoate complexes, basic	90431-32-6
lead, 2-ethylhexanoate naphthenate complexes	90431-33-7
lead, 2-ethylhexanoate naphthenate complexes, basic	90431-34-8
lead, 2-ethylhexanoate neodecanoate complexes, basic	90431-35-9
lead, 2-ethylhexanoate tall-oil fatty acids complexes	68187-37-1
lead, alkyls, manufacturing wastes	70513-89-2
lead, antimonial	69029-50-1
lead, antimonial, dross	69029-51-2

Substance Group name	
Substance	**CAS №**
lead chromate molybdate sulphate red / molybdate orange (lead chromate pigment)	12656-85-8
naphthalenesulfonic acid, diisononyl-, lead(2+) salt	63568-30-9
naphthalenesulfonic acid, dinonyl-, lead(2+) salt	61867-68-3
naphthenic acids, lead (2+) salts	91078-81-8
naphthenic acids, lead manganese salts	61788-52-1
naphthenic acids, lead salts, basic	92045-67-5
neodecanoic acid, lead salt, basic	90459-25-9
neononanoic acid, lead salt, basic	90459-26-0
neoundecanoic acid, lead salt, basic	90459-28-2
nitric acid, lead(2+) salt, reaction products with sodium tin oxide	97953-08-7
nitrous acid, lead(2+) salt	13826-65-8
octadecanoic acid, lead salt, basic	90459-51-1
octadecanoic acid, lead(2+) salt, basic	90459-52-2
octadecanoic acid, lead(2+) salt, tribasic	52080-60-1
octanoic acid, lead salt	15696-43-2
orthoboric acid, lead(2+) salt	35498-15-8
perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	99749-31-2
petrolatum, petroleum, oxidized, lead salt	67674-14-0
phenol,, 2-methyldinitro-, lead salt	50319-14-7
phenol,, dodecyl-, lead(2+) salt	68586-21-0
phenol,, tetrapropylene-, lead(2+) salt	122332-23-4
phosphonic acid, lead salt	16038-76-9
phosphonic acid, lead salt, basic	53807-64-0
phosphonic acid, lead(2+) salt	24824-71-3
phosphonic acid, lead(2+) salt (1:1)	13453-65-1
phosphonic acid, lead(2+) salt (2:1)	15521-60-5
phosphoric acid, lead(2+) salt (1:1)	15845-52-0
phosphoric acid, mixed butyl and hexyl diesters, lead(2+) salts	93925-27-0
phosphorodithioate O,O-bis(1,3-dimethylbutyl), lead salt	20383-42-0
phosphorodithioic acid, mixed O,O-bis(bu and pentyl) esters, lead(2+) salt	91783-10-7
plumbane, chlorotriethyl-	1067-14-7
plumbane, diethyldimethyl-	1762-27-2
plumbane, ethyl methyl derivitives	68610-17-3
plumbane, ethyltrimethyl-	1762-26-1
plumbane, tetrabutyl-	1920-90-7
plumbane, tetrakis(1-methylethyl)-	14846-40-3
plumbane, tetrakis(1-methylpropyl)-	65151-08-8
plumbane, triethylmethyl-	1762-28-3
plumbate (PbO22-), disodium	12034-30-9
plumbate (PbO44-), calcium (1:2), (T-4)-	12013-69-3
potassium pentadecaoxodiplumbatepentaniobate(1-)	12372-45-1
residues, copper-iron-lead-nickel matte, sulfuric acid-insol.	102110-49-6
salicylate, lead (II)	6107-93-3
silicic acid (H2sio3), calcium salt (1:1), lead and manganese-doped	100402-96-8
lead silicate / silicic acid (H2SiO3), lead(2+) salt (1:1)	10099-76-0
silicic acid (H4SiO4), lead salt	15906-71-5
silicic acid, calcium salt, lead and manganese-doped	102110-36-1
silicic acid, lead nickel salt	68130-19-8
slimes and sludges, lead sinter dust scrubber	70514-37-3
speiss,, lead-zinc	93821-72-8
spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, lead salt	1326-05-2
lead stearate / stearic acid, lead (2+) salt	1072-35-1
sulfuric acid, barium lead salt	42579-89-5
sulfuric acid, barium salt (1:1), lead-doped	99328-54-8
sulfuric acid, lead salt, tetrabasic	52732-72-6
sulfuric acid, lead(2+) salt, basic	90583-07-6
sulfurous acid, lead salt, basic	52231-92-2
sulfurous acid, lead salt, dibasic	62229-08-7
sulfurous acid, lead(2+) salt, basic	90583-37-2
sulfurous acid, lead(2++) salt (1:1)	7446-10-8
telluric acid (H2TeO3), lead(2+) salt (1:1)	15851-47-5
tetradecanoic acid, lead salt, basic	90583-65-6
lead, tetraethyl- / tetraethyllead	78-00-2
lead, tetramethyl- / tetramethyl lead	75-74-1

Substance Group name	
Substance	**CAS №**
tetraphenyllead	595-89-1
tetrapropyl lead	3440-75-3
thiosulphuric acid, lead salt	26265-65-6
lead/Tin alloy	39412-44-7
trinitrophloroglucinol, lead salt	51325-28-1
naphthenic acid, cobalt lead manganese salt	61789-50-2
lead sub-carbonate / lead, bis(carbonato(2-))dihydroxytri	1344-36-1
lead borate / boric acid (HBO2), lead(2+) salt, monohydrate (8CI, 9CI)	10214-39-8
fatty acids, C6-19-branched, lead salts, basic	68603-83-8
pigment Lightfast lead-molybdate orange OS (9CI)	78690-68-3
lead compounds	AL12
hexavalent chromium compounds	
ammonium dichromate	7789-09-5
ammonium chromate	7788-98-9
barium chromate	10294-40-3
C.I. pigment orange 21	1344-38-3
calcium chromate	13765-19-0
chromic acid, calcium salt, (calcium dichromate)	14307-33-6
cesium chromate	13454-78-9
chromate(1-), chlorotrioxo-, potassium, (T-4)-	16037-50-6
chromic acid	7738-94-5
chromic sulfuric acid / chromic acid (H2Cr2O7)	13530-68-2
chromic acid (H2Cr2O7), nickel(2+) salt (1:1)	15586-38-6
chromic acid (H2CrO4), lanthanum(3+) salt (3:2)	16565-94-9
chromic acid (H2CrO4), magnesium salt (1:1)	13423-61-5
chromic acid, ammonium salt	14445-91-1
chromic acid, barium potassium salt	27133-66-0
chromic acid, potassium zinc salt	41189-36-0
chromium (VI)	18540-29-9
chromium (VI) chloride	14986-48-2
chromium arsenide (Cr2As)	12254-85-2
chromium cobalt copper iron manganese oxide	102262-21-5
chromium cobalt iron manganese oxide	102262-22-6
chromium cobalt manganese oxide	102262-19-1
chromium cobalt oxide	37382-24-4
chromium cobalt oxide (Cr2CoO4)	12016-69-2
chromium hydroxide oxide silicate	68475-49-0
chromium nickel oxide (Cr2NiO4)	12018-18-7
chromium trioxide (CrO3)	1333-82-0
chromyl chloride	14977-61-8
cobalt chromate	13455-25-9
cobalt chromium alloy	11114-92-4
copper chromate	13548-42-0
copper dichromate	13675-47-3
dithallium dichromate	13453-35-5
lead chromate	7758-97-6
lead chromate oxide	18454-12-1
lead sulfochromate yellow	1344-37-2
lithium chromate	14307-35-8
magnesium dichromate	14104-85-9
lead chromate molybdate sulphate red / molybdate orange (lead chromate pigment)	12656-85-8
nickel chromate	14721-18-7
nitric acid, barium salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and copper(2+) dinitrate, calcined	99328-50-4
nitric acid, copper(2+) salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium salt and manganese(2+) dinitrate, kilned	100402-65-1
potassium chromate	7789-00-6
potassium dichromate	7778-50-9
silver chromate	7784-01-2
sodium dichromate	7789-12-0
dichromium tris(chromate)	24613-89-6
sodium chlorate	7775-11-3
sodium dichromate	10588-01-9
strontium chromate	7789-06-2

Substance Group name	
Substance	**CAS №**
thallium (I) chromate	13473-75-1
zinc chromate	1328-67-2
zinc chromate	13530-65-9
zinc chromate hydroxide	15930-94-6
zinc dichromate	14018-95-2
zinc potassium chromate	11103-86-9
zinc yellow (zinc chromate pigment)	37300-23-5
dihydroxy-dioxo-chromium	11115-74-5
potassium; dioxido-dioxo-chromium	12433-50-0
pentazinc chromate octahydroxide	49663-84-5
acids generated from chromium trioxide and their oligomers:	AL13-1
oligomers of chromic acid and dichromic acid	AL13-2
hexavalent cromium compounds	AL13
organiostannic compounds	
tributyltin carboxylate(C=9-15)	HSC380309
bis(tri-n-butyltin) dibromosuccinate	31732-71-5
(2-biphenyloxy)tributyltin	3644-37-9
triphenyltin chloroacetate / (chloroacetoxy)triphenylstannane	7094-94-2
tributyltin abietate / [1R-(1.alpha.,4a.beta.,4b.alpha.,10a.alpha.)]-tributyl[[[1,2,3,4,4a,4b,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthryl]carbonyl]oxy]stannane	26239-64-5
1,3,5-tris(tributyltin)-S-triazine-2,4,6-trione	752-58-9
2-butenoic acide, 4-oxo-4-[(tributylsyannyl)oxy]-	4027-18-3
acetic acid, 2,2',2"-[(methylstannylidyne)tris(thio)]tris-, triisooctyl ester	54849-38-6
5,5,12,12-tetrabutyl-8-methylene-7,10-dioxo-6,11-dioxa-5,12-distannahexadecane	25711-26-6
bis(tri-n-butyltin)oxide / bis(tributyltin)oxide	56-35-9
bis(tris(2-methyl-2-phenylpropyl)tin) oxide	13356-08-6
bis (tributyltin) maleate	14275-57-1
bis (tributyltin) phthalate	4782-29-0
coplymer of akyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4
bis (tributyltin) fumarate	6454-35-9
bromotrimethylstannane	1066-44-0
p-nitropphenoxytributyltin	3644-32-4
fentin acetate / stannane, acetoxytriphenyl-	900-95-8
stannane, bromotriethyl-	2767-54-6
triphenyltin fluoride / stannane, fluorotriphenyl-	379-52-2
tributyltin fluoride / stannane, tributylfluoro-	1983-10-4
tributyltin laurate / tributyl(lauroyloxy)stannane	3090-36-6
tributyl(neodecanoyloxy)stannane	28801-69-6
tributyl(oleoyloxy)stannane	3090-35-5
tributyltin	56573-85-4
tributyltin (and salts and esters)	688-73-3
tributyltin .alpha.-(2,4,5-trichlorophenoxy) propionate	73940-89-3
tributyltin .beta.-iodopropionate	73927-95-4
tributyltin 2-ethylhexanoate	5035-67-6
(acetyloxy)tributylstannane / tributyltin acetate	56-36-0
tributyltin acrylate	13331-52-7
tributyltin benzoate	4342-36-3
tributyltin bromide	1461-23-0
tributylchlorostannane / tributyltin chloride	1461-22-9
tributyltin chloroacetate	5847-52-9
tributyltin cinnamate	27147-18-8
tributyltin cyanate	4027-17-2
tributyltin cyanide	2179-92-2
tributyltin dimethyldithiocarbamate	20369-63-5
tributyltin gamma-chlorobuthrate	33550-22-0
tributyltin hydroxide	1067-97-6
tributyltin iodide	7342-47-4
tributyltin iodoacetate	73927-91-0
tributyltin isooctylthioacetate	73927-97-6
tributyltin isopropylsuccinate	53404-82-3
tributyltin isothiocyanate	681-99-2
tributyltin linoleate	24124-25-2
tributyltin methacrylate	2155-70-6
tributyltin methanesulphonate	13302-06-2

Substance Group name	
Substance	**CAS №**
tributyltin methoxide	1067-52-3
tributyltin monopropylene glycol maleate	53466-85-6
tributyltin naphthenate	36631-23-9
tributyltin naphthenate	85409-17-2
tributyltin nonanoate	4027-14-9
tributyltin o-iodobenzoate	73927-93-2
tributyltin p-iodobenzonate	73940-88-2
tributyltin sulfamate	6517-25-5
tributyltin undecylenate	69226-47-7
1-(tricyclohexylstannyl)-1H-1,2,4-triazole	41083-11-8
triethyltin acetate	1907-13-7
triethyltin chloride	994-31-0
triethyltin hydroxide	994-32-1
triethyltin iodide	2943-86-4
triethyltin phenoxide	1529-30-2
trimethyltin acetate	1118-14-5
trimethyltin azide	1118-03-2
trimethyltin chloride	1066-45-1
trimethyltin hydroxide	56-24-6
trimethyltin iodide	811-73-4
trimethyltin sulphate	63869-87-4
trimethyltin thiocyanate	4638-25-9
tri-n-butyl tin salicylate	4342-30-7
triphenylstannyl decanoate	47672-31-1 18380-71-7 18380-72-8 94850-90-5
triphenyltin chloride	639-58-7
triphenyltin n,n-dimethyldithiocarbamate / triphenyltin dimethyldithiocarbamate	1803-12-9
triphenyltin hydride	892-20-6
triphenyltin hydroxide	76-87-9
triphenyltin iodide	894-09-7
tripropyltin acetate	3267-78-5
tripropyltin bromide	2767-61-5
tripropyltin chloride	2279-76-7
tripropyltin iodide	7342-45-2
tripropyltin iodoacetate	73927-92-1
tripropyltin laurate	57808-37-4
tripropyltin methacrylate	4154-35-2
tricyclohexyl tin compounds	AL52-1
triethyltin compounds	AL52-2
trihexyltin compounds	AL52-3
trimethyltin compounds	AL52-4
trioctyltin compounds	AL52-5
tripentyltin compounds	AL52-6
triphenyltin compounds	AL14
tripropyltin compounds	AL52-7
tributyltin compounds	AL15
tri-substituted organiostannic compounds	AL52
butoxydibutylchlorostannane	14254-22-9
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
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
5,7,12-trioxa-6-stannatetracosa-2,9-dienoic acid, 6,6-dibutyl-4,8,11-trioxo-, dodecyl ester, (Z,Z)-	33466-31-8
acetate, S,S'-bisoctylmercapto-, dibutyltin	32011-18-0
bis (acetato) dibutyltin	17523-06-7
dibutyl tin	1002-53-5
dibutyltinbis(2-ethylhexyl mercaptoacetate)	10584-98-2
dibutylbis(octyl maleate)tin	17036-31-6
2-butenoic acid, 4,4'-[(dibutylstannylene)bis(oxy)]bis[4-oxo-, diisooctyl ester, (2z,2'z)-	25168-21-2
dibutylbis((1-oxoneodecyl)oxy)stannane	25168-22-3
dibutylbis(myristoyloxy)stannane	28660-67-5
dibutylthioxostannane	4253-22-9
dibutylbis[(1-oxoisooctadecyl)oxy]stannane	59963-28-9

Substance Group name	
Substance	**CAS №**
silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9
dibutylbis(ethyl 3-oxobutyrato-O1',O3)tin	54581-65-6
dibutyltin bis(2-ethylhexyl-3-mercaptopropionate)	53202-61-2
benzyl (z,z)-8,8-dibutyl-3,6,10-trioxo-1-phenyl-2,7,9-trioxa-8-stannatrideca-4,11-dien-13-oate / dibutyltin bis(benzyl maleate)	7324-74-5
dibutyltin bis(cyclohexyl maleate)	5587-52-0
dibutyltin bis(isooctyl mercaptoacetate)	25168-24-5
dibutyltin bis(lauryl β-mercaptopropionate)	51287-83-3
dibutyltin bis(octylthioglycolate)	2781-09-1
dibutyltin bis(oleyl maleate)	29881-72-9
dibutyltin di(isooctyl 3-mercaptopropionate)	26761-46-6
dibutyltin diacetate	1067-33-0
dibutyltin dibenzoate	5847-54-1
dibutyltin dibutoxide	3349-36-8
dibutyltin dichloride	683-18-1
dibutyltin dihexanoate	19704-60-0
dibutyltin dilaurate	77-58-7
dibutyltin dilauryl mercaptide	1185-81-5
dibutyltin dimaleate	10192-92-4
dibutyldimethoxystannane	1067-55-6
dibutyltin dioctanoate	4731-77-5
dibutyltin dioleate	13323-62-1
dibutyltin dipalmitate	13323-63-2
dibutyltin disalicylate	14214-24-5
dibutyltin distearate	5847-55-2
dibutyltin hydrogen borate	75113-37-0
dibutyltin isooctanoate	85702-74-5
dibutyltin linoleate	85391-79-3
dibutyltin linolenate	95873-60-2
dibutyltin maleate	78-04-6
dibutyltin mercaptoacetate	78-20-6
dibutyltin mercaptopropionate	78-06-8
dibutyltin oxide	818-08-6
dibutyltin S,S'-bis (isooctyl mercaptoacetate)	26636-01-1
dibutytin di(2-ethylhexyl maleate)	15546-12-0
di-n-butyltin bis(methyl maleate)	15546-11-9
di-n-butyltin di(monobutyl)maleate	15546-16-4
di-n-butyltin di-2-ethylhexanoate	2781-10-4
tin, dibutyl(1,2-ethanediamine-N,N')bis(monoisooctyl 2-butenedioato-O')-	163206-28-8
tin, dibutyl[N-(carboxymethyl)-N-(2-hydroxyethyl)glycinato(2-)]-	68239-46-3
tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-	22673-19-4
Tin, dibutylbis(methyl 3-mercaptopropanoato-O,S)-	32011-19-1
tin, dibutylbis(N,N-diethylethanamine)difluoro-	67924-24-7
dibutyltin compounds	AL53
dioctyl tin	26401-97-8
dioctyltin bis(2-ethylhexyl thioglycolate)	15571-58-1
dioctyltin bis(isooctyl maleate)	33568-99-9
dioctyltin dichloride	3542-36-7
dioctyltin maleate	16091-18-2
dioctyltin oxide	870-08-6
dioctyltin bis(2-ethylhexyl maleate)	10039-33-5
dioctylbis(stearoyloxy)stannane	22205-26-1
dioctyltin dilaurate	3648-18-8
dioctylbis(pentane-2,4-dionato-O,O')tin	54068-28-9
dioctyltindineodecanoate	68299-15-0
silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane	93925-43-0
5,7,12-trioxa-6-stannaoctadeca-2,9-dienoicacid, 14-ethyl-6,6-dioctyl-4,8,11-trioxo-, 2-ethylhexyl ester	10039-33-5
dioctyl tin compounds	AL54
diisobutyltin oxide	61947-30-6
dimethoxybis(pentane-2,4-dionato-O,O')tin	66779-19-9
Tin, dichloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (OC-6-12)-	18253-54-8
diorganotin compounds	AL55
Other organiostannic compounds	AL56

Substance Group name	
Substance	**CAS №**
beryllium and its compounds	
beryl ore	1302-52-9
beryllate(2-), tetrafluoro-, diammonium	14874-86-3
beryllium	7440-41-7
beryllium aluminum alloy	12770-50-2
beryllium boride (Be2B)	12536-51-5
beryllium boride (Be4B)	12536-52-6
beryllium boride (BeB2)	12228-40-9
beryllium boride (BeB6)	12429-94-6
beryllium bromide (BeBr2)	7787-46-4
beryllium carbide (Be2C)	506-66-1
beryllium carbonate	13106-47-3
bis[carbonato-(2-)]dihydroxy-triberyllium	66104-24-3
beryllium chloride	7787-47-5
beryllium di(acetate)	543-81-7
beryllium fluoride	12323-05-6
beryllium fluoride	7787-49-7
beryllium hydroxide	13327-32-7
beryllium iodide (BeI2)	7787-53-3
beryllium nitrate	13597-99-4
beryllium nitrate trihydrate	7787-55-5
beryllium nitride (Be3N2)	1304-54-7
beryllium oxide	1304-56-9
beryllium phosphate	13598-15-7
beryllium phosphide	58127-61-0
beryllium phosphide (BeP2)	57620-29-8
beryllium selenide (BeSe)	12232-25-6
beryllium sulfate	13510-49-1
beryllium sulfate tetrahydrate	7787-56-6
beryllium sulfide (BeS)	13598-22-6
beryllium telluride (BeTe)	12232-27-8
beryllium zinc silicate	25638-88-4
beryllium zinc silicate	39413-47-3
bis(pentane-2,4-dionato-O,O')beryllium	10210-64-7
diethylberyllium	542-63-2
disodium tetrafluoroberyllate	13871-27-7
hexakis[.mu.-(acetato-O:O')]-.mu.4-oxotetraberyllium	19049-40-2
nitric acid, beryllium salt, tetrahydrate	13510-48-0
phosphoric acid, beryllium salt	35089-00-0
phosphoric acid, beryllium salt (2:3)	13598-26-0
silicic acid (H4SiO4), beryllium salt (1:2)	15191-85-2
silicic acid, beryllium salt	58500-38-2
beryllium compounds	AL16
asbestos	
actinolite	77536-66-4
amosite	12172-73-5
anthophylite	77536-67-5
chrysotile	12001-29-5
crocidolite	12001-28-4
tremolite	77536-68-6
asbestos	1332-21-4
actinolite	13768-00-8
tremolite	14567-73-8
anthophyllite	17068-78-9
actinolite	12172-67-7
chrysotile	132207-32-0
crocidolite	132207-33-1
asbestos	AL17
specified brominated flame retardants	
2-bromobiphenyl	2052-07-5
3-bromobiphenyl	2113-57-7
4-bromobiphenyl	92-66-0
tetrabromobiphenyl	40088-45-7
pentabromobiphenyl	56307-79-0

Substance Group name	
Substance	**CAS №**
heptabromobiphenyl	35194-78-6
nonabromo-1,1'-biphenyl	27753-52-2
[1,1'-biphenyl]-ar,ar'-diol, tetrabromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol,]	68758-75-8
1,1'-biphenyl, 2,2',3,4',5'-pentabromo-	73141-48-7
1,1'-biphenyl, 2,2',3,4,6-pentabromo-	77910-04-4
1,1'-biphenyl, 2,2',3,5',6-pentabromo-	88700-05-4
1,1'-biphenyl, 2,2',4,4',5-pentabromo-	81397-99-1
1,1'-biphenyl, 2,2',4,4',6-pentabromo-	97038-97-6
1,1'-biphenyl, 2,2',4,4'-tetrabromo-	66115-57-9
1,1'-biphenyl, 2,2',4,5,5'-pentabromo-	67888-96-4
1,1'-biphenyl, 2,2',4,5',6-pentabromo-	59080-39-6
1,1'-biphenyl, 2,2',4,5,6'-pentabromo-	80274-92-6
1,1'-biphenyl, 2,2',4,5'-tetrabromo-	60044-24-8
1,1'-biphenyl, 2,2',4,6,6'-pentabromo-	97063-75-7
1,1'-biphenyl, 2,2',4,6'-tetrabromo-	97038-95-4
1,1'-biphenyl, 2,2',5,5'-tetrabromo-	59080-37-4
1,1'-biphenyl, 2,2',5,6'-tetrabromo-	60044-25-9
2,2',5-tribromobiphenyl / 1,1'-biphenyl, 2,2',5-tribromo-	59080-34-1
1,1'-biphenyl, 2,2',6,6'-tetrabromo-	97038-96-5
1,1'-biphenyl, 2,2'-dibromo-	13029-09-9
1,1'-biphenyl, 2,3,4,4',5-pentabromo-	96551-70-1
1,1'-biphenyl, 2',3,4,4',5-pentabromo-	74114-77-5
1,1'-biphenyl, 2,3',4,4'-tetrabromo-	84303-45-7
1,1'-biphenyl, 2,3,4,5,6-pentabromo-	38421-62-4
1,1'-biphenyl, 2,3',4',5-tetrabromo-	59080-38-5
1,1'-biphenyl, 2,3',5-tribromo-	59080-35-2
1,1'-biphenyl, 2,3'-dibromo-	49602-90-6
1,1'-biphenyl, 2,4,4',6-tetrabromo-	64258-02-2
1,1'-biphenyl, 2,4',5-tribromo-	59080-36-3
1,1'-biphenyl, 2,4,6-tribromo-	59080-33-0
1,1'-biphenyl, 2,4',6-tribromo-	64258-03-3
1,1'-biphenyl, 2,4'-dibromo-	49602-91-7
1,1'-biphenyl, 2,4-dibromo-	53592-10-2
1,1'-biphenyl, 2,5-dibromo-	57422-77-2
1,1'-biphenyl, 2,6-dibromo-	59080-32-9
1,1'-biphenyl, 3,3',4,4'-tetrabromo-	77102-82-0
1,1'-biphenyl, 3,3',4,5'-tetrabromo-	97038-98-7
1,1'-biphenyl, 3,3',5,5'-tetrabromo-	16400-50-3
1,1'-biphenyl, 3,3'-dibromo-	16400-51-4
1,1'-biphenyl, 3,4,4',5-tetrabromo-	59589-92-3
1,1'-biphenyl, 3,4'-dibromo-	57186-90-0
1,1'-biphenyl, 3,4-dibromo-	60108-72-7
4,4'-dibromobiphenyl / 1,1'-biphenyl, 4,4'-dibromo-	92-86-4
2,2',3,3',5,5',6,6'-octabromo-4-phenoxy-1,1'-biphenyl	83929-69-5
4,4',6,6'-tetrabromo[1,1'-biphenyl]-2,2'-diol	14957-65-4
decabromobiphenyl（perbromobiphenyl）	13654-09-6
hexabrominated biphenyls / firemaster BP-6	59536-65-1
hexabromobiphenyl	59080-40-9
firemaster FF 1	67774-32-7
hexabromobiphenyl	36355-01-8
octabromobiphenyl	27858-07-7
octabromobiphenyl / bromkal 80	61288-13-9
PBB	AL18
monobrominated diphenyl ethers	101-55-3
dibrominated diphenyl ethers	2050-47-7
tribrominated diphenyl ethers	49690-94-0
pentabromo(tetrabromophenoxy)benzene	63936-56-1
decabrominated diphenyl ethers / decabromodiphenyl ether ('deca'; decabromodiphenyl oxide)	1163-19-5
octabrominated diphenyl ethers / octabromodiphenyl ether ('octa')	32536-52-0
pentabrominated diphenyl ethers / pentabromodiphenyl ether ('penta')	32534-81-9
hexabrominated diphenyl ethers / hexabromodiphenyl ether	36483-60-0
heptabromodiphenylether	68928-80-3
tetrabrominated diphenyl ethers / tetrabromodiphenylether	40088-47-9

Substance Group name	
Substance	**CAS №**
PBDE	AL19
polychlorinated naphthalene	
alpha-chloronaphthalene	90-13-1
octachloronaphthalene	2234-13-1
tetrachloronaphthalene	1335-88-2
hexachloronaphthalene	1335-87-1
heptachloro naphthalene	32241-08-0
naphthalene, chloro derivatives	70776-03-3
trichloronaphthalene	1321-65-9
pentachloronaphthalene	1321-64-8
polychlorinated naphthalene	38289-27-9
polychloronaphthalene	AL20
poly chlorinated biphenyl : PCB / poly chlorinated terphenyls : PCT	
1,1'-biphenyl, 2,4',5-trichloro-	16606-02-3
1,1'-biphenyl, 2,2',4,4',5,5'-hexabromo-	59080-40-9
2,2',4,4'-tetrachlorobiphenyl	2437-79-8
2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6
2,4,5,2',4',5'-hexachlorobiphenyl	35065-27-1
3,3',4,4'-tetrachlorobiphenyl	32598-13-3
3,4,5,3',4',5'-hexachlorobiphenyl	32774-16-6
aroclor 1016	12674-11-2
aroclor 1221	11104-28-2
aroclor 1232	11141-16-5
aroclor 1242	53469-21-9
aroclor 1248	12672-29-6
aroclor 1254	11097-69-1
aroclor 1260	11096-82-5
heptachloro-1,1'-biphenyl	28655-71-2
nonachloro-1,1'-biphenyl	53742-07-7
pentachloro[1,1'-biphenyl]	25429-29-2
polychlorinated biphenyls	1336-36-3
tetrachloro(tetrachlorophenyl)benzene	31472-83-0
polychlorinated terphenyls / terphenyl, chlorinated	61788-33-8
chlorinated paraffins	
short chain chlorinated paraffins (C10-13, 48% chlorine)	AL22
chloroalkane(C10-13) （short chain chlorinated paraffins）	85535-84-8
alkanes, C10-12, chloro	108171-26-2
alkanes, C12-13, chloro medium chain (MCCP), by definition: chloroparaffins, unbranched, CxH(2x-y+2)Cly, where x = 14-17 and y = 1-17	71011-12-6
alkanes, C14-17, chloro OTHER: may or may not be short or medium chain.	85535-85-9
alkanes, C10-21, chloro	84082-38-2
alkanes, chloro; chloroparaffins	61788-76-9 51990-12-6
paraffin waxes, chloro	63449-39-8
chlorinated n-paraffins (C6-18)	68920-70-7
alkane, C10-14-, chloro-	85681-73-8
alkane, C12-14-, chloro-	85536-22-7
alkane, C16-27-, chloro-	84776-07-8
alkane, C16-35-, chloro-	85049-26-9
alkane, C12-24-, chloro-	68527-02-6
azo dye/pigment forming specified amine compounds	
2,4,5-trimethylaniline	137-17-7
2-naphthylamine	91-59-8
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
4,4'-methylenebis-(2-chlorobenzenamine)	101-14-4

Substance Group name	
Substance	**CAS №**
4,4'-methylenedianiline (MDA) / diamino-diphenylmethane (4,4'-diaminodiphenylmethane)	101-77-9
4,4'-methylenedi-o-toluidine	838-88-0
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
biphenyl-4-ylamine	92-67-1
4-chloroaniline	106-47-8
4-chloro-o-toluidine	95-69-2
4-methoxy-1,3-phenylenediamine	615-05-4
toluene-2,4-diamine	95-80-7
2-methyl-5-nitroaniline	99-55-8
benzidine	92-87-5
2-methyl-4-(2-tolyldiazenyl)aniline	97-56-3
aniline, 2-methoxy-	90-04-0
ortho-toluidine	95-53-4
6-methoxy-m-toluidine	120-71-8
4-aminoazobenzene	60-09-3
N,N-diethanolamin	111-42-2
N,N-diethylamin	109-89-7
N,N-di-i-propylamin	108-18-9
N,N-dimethylamin	124-40-3
N,N-di-n-propylamin	142-84-7
N,N-di-n-butylamin	111-92-2
N,N-ethylphenylamin	103-69-5
N,N-methylethylamin	624-78-2
N-methyl-N-phenylamin	100-61-8
morpholin	110-91-8
piperidin	110-89-4
pyrrolidin	123-75-1
p-aminobiphenyl hydrochloride	2113-61-3
benzidine acetate	36341-27-2
benzidine salt	531-86-2
benzidine sulphate	21136-70-9
benzidine, Ni(2+) salt	67632-50-2
[1,1'-biphenyl]-4,4'-diamine, dihydrochloride	531-85-1
[1,1'-biphenyl]-4,4'-diamine, 2,2'-dichloro-, sulfate (1:1)	70146-07-5
3,3'-dichlorobenzidine dihydrochloride	612-83-9
3,3'-dimethylbenzidine dihydrochloride	612-82-8
4,4'-diaminodiphenyl-2,2'-disulfonic acid disodium salt	27336-24-9
acid black 7	8004-59-9
C.I. acid red 85	3567-65-5
C.I. direct black 38	1937-37-7
C.I. direct black 4, disodium salt	2429-83-6
C.I. direct blue 6	2602-46-2
C.I. direct blue 2, trisodium salt	2429-73-4
C.I. direct brown 1	3811-71-0
C.I. direct brown 2, disodium salt	2429-82-5
C.I. direct brown 154	6360-54-9
C.I. direct brown 31, tetrasodium salt	2429-81-4
C.I. direct brown 59, disodium salt	3476-90-2
C.I. direct brown 6, disodium salt	2893-80-3
C.I. direct brown 95	16071-86-6
C.I. direct green 1, disodium salt	3626-28-6
C.I. direct green 6, disodium salt	4335-09-5
C.I. direct green 8, trisodium salt	5422-17-3
C.I. direct red 1, disodium salt	2429-84-7
C.I. direct red 28	573-58-0
C.I. direct red 37	3530-19-6
C.I. direct violet 22, trisodium salt	6426-67-1
direct orange 1	13164-93-7
benzoic acid, 5-[[4'-[(1-amino-4-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-,	2429-79-0
Trypan blue (C.I. direct blue 14)	72-57-1

Substance Group name	
Substance	**CAS №**
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
salts from 3,3'-dimethoxybenzidine	AL23-1
dipotassium O,O'-(4,4'-diaminobiphenyl-3,3'-ylene)diglycollate	74220-10-3
salts from 3,3'-dimethoxybenzidin	AL23-2
2-naphthylammoniumacetat	553-00-4
1,2-di-o-tolylguanidine, DOTG	97-39-2
radioactive substances	
radioactive substances	AL44
americium-241	14596-10-2
cesium-137	10045-97-3
strontium-90	10098-97-2
plutonium	7440-07-5
radon / radium	7440-14-4 10043-92-2
thorium	7440-29-1
thorium dioxide	1314-20-1
uranium	7440-61-1
uranium compounds	AL44-1
xylene	
xylene	1330-20-7
toluene	
toluene	108-88-3
antimony and its compounds	
antimony	7440-36-0
stibine ; hydrogen antimonide	7803-52-3
antimony pentafluoride	7783-70-2
antimony pentachloride	7647-18-9
antimony pentoxide	1314-60-9
antimony pentasulfide	1315-04-4
antimony trifluoride	7783-56-4
antimony (III) iodide	7790-44-5
antimony trichloride	10025-91-9
antimony trisulfide	1345-04-6
antimony potassium tartrate, trihydrate	28300-74-5
antimony trioxide	1309-64-4
antimony compounds	AL27
chromium and its compounds（except hexavalent chromium compounds）	
chromium	7440-47-3
chromic acetate	1066-30-4
basic chromic sulfate	64093-79-4
chromium oxide	1308-38-9
chromic hydroxide	1308-14-1
chromium compounds	AL29
selenium and its compounds	
selenium disulfide	7488-56-4
barium selenite	13718-59-7
dihydrogen selenide / hydrogen selenide	7783-07-5
iron selenide	1310-32-3
sodium-selenite	10102-18-8
selenium oxide	12640-89-0
bis(ethylselenyl)diiron tetranitrosyl (6CI)	15025-89-5
dimethylselenide	593-79-3
selenium sulfide	7446-34-6
selenic acid	7783-08-6
selenious acid	7783-00-8
selenium	7782-49-2
selenium dioxide	7446-08-4
selenium hexafluoride	7783-79-1
zinc selenide	1315-09-9
selenium compounds	AL31
nickel and its compounds	
(2-ethylhexanoato-O)(isodecanoato-O)nickel	84852-39-1

Substance Group name	
Substance	**CAS №**
(2-ethylhexanoato-O)(isononanoato-O)nickel	85508-45-8
(2-ethylhexanoato-O)(isooctanoato-O)nickel	84852-38-0
(2-ethylhexanoato-O)(neodecanoato-O)nickel	85135-77-9
(isodecanoato-O)(isononanoato-O)nickel	84852-36-8
(isodecanoato-O)(isooctanoato-O)nickel	85166-19-4
(isodecanoato-O)(neodecanoato-O)nickel	85508-42-5
(isononanoato-O)(isooctanoato-O)nickel	85508-46-9
(isononanoato-O)(neodecanoato-O)nickel	85551-28-6
(isooctanoato-O)(neodecanoato-O)nickel	84852-35-7
(neononanoato-O)(neoundecanoato-O)nickel	93920-08-2
[.mu.-[[1,1',1",1"'-[benzene-1,2,4,5-tetrayltetrakis(nitromethylidyne)]naphth-2-olato](4-)]]dinickel	22484-07-7
[.mu.-[carbonato(2-)-O:O']]dihydroxydinickel	65405-96-1
[[2,2'-(4,8-dichlorobenzo[1,2-d:4,5-d']bisoxazole-2,6-diyl)bis[4,6-dichlorophenol,ato]](2-)]nickel	47726-62-5
[[2,2'-Thiobis[3-octylphenol,ato]](2-)-O,O',S]nickel	33882-09-6
[[N,N',N",N"'-[29H,31H-Phthalocyaninetetrayltetrakis(sulphonylimino-3,1-phenylene)]tetrakis[3-oxobutyramidato]](2-)-N29,N30,N31,N32]nickel	97404-22-3
[[N,N',N"-[29H,31H-Phthalocyaninetriyltris(sulphonylimino-3,1-phenylene)]tris[3-oxobutyramidato]](2-)-N29,N30,N31,N32]nickel	97404-21-2
[2,3'-bis[[(2-hydroxyphenyl)methylene]amino]but-2-enedinitrilato(2-)-N2,N3,O2,O3]nickel	64696-98-6
1,2,3-propanetricarboxylic acid, 2-hydroxy-, ammonium nickel(2+) salt (2:2:1)	68025-13-8
1,2,3-propanetricarboxylic acid, 2-hydroxy-, nickel(2+) salt (2:3)	6018-92-4
1,2,3-propanetriol, 1-(dihydrogen phosphate), nickel(2+) salt (1:1)	68391-37-7
1,2,3-propanetriol, mono(dihydrogen phosphate), nickel(2+) salt (1:1)	67952-69-6
1,2-benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, nickel(2+) salt (1:1)	18824-79-8
2,7-naphthalenedisulfonic acid, nickel(2+) salt (1:1)	72319-19-8
2-ethylhexanoic acid, nickel salt	7580-31-6
acetic acid, nickel(2+) salt, polymer with formaldehyde and 4-(1,1,3,3-tetramethylbutyl)phenol,	71050-57-2
aluminum boron cobalt lithium nickel oxide	207803-51-8
aluminum cobalt lithium nickel oxide	193214-24-3
aluminum nickel oxide (Al2NiO4)	12004-35-2
aluminum, compound with nickel (1:1)	12003-78-0
aluminum, triethyl-, reaction products with nickel(2+) bis(2-ethylhexanoate)	79357-65-6
antimony oxide (Sb2O3), solid solution with nickel oxide (NiO) and titanium oxide (TiO2)	73892-02-1
antimony, compound with nickel (1:1)	12035-52-8
antimony, compound with nickel (1:3)	12503-49-0
benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	55868-93-4
benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, nickel(2+) salt (2:1)	52625-25-9
bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato-O,O')nickel	14949-69-0
bis(1,5-cyclooctadiene)nickel	1295-35-8
bis(1H-1,2,4-triazole-3-sulphonato-N2,O3)nickel	85586-46-5
bis(1-nitroso-2-naphtholato)nickel	12794-26-2
bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')(2,2,4,4-tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]henicosan-21-one-O21)nickel	79121-51-0
bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')nickel	69524-96-5
bis(5-oxo-DL-prolinato-N1,O2)nickel	85026-81-9
bis(5-oxo-L-prolinato-N1,O2)nickel	70824-02-1
bis(butanedione dioximato)nickel	13478-93-8
bis(D-gluconato-O1,O2)nickel	71957-07-8
bis(diethyldithiocarbamato-S,S')nickel	52610-81-8
bis(quinolin-8-olato-N1,O8)nickel	14100-15-3
bis[(2-hydroxyethyl)dithiocarbamato-S,S']nickel	52486-98-3
bis[2-hydroxy-4-(octyloxy)benzophenonato]nickel	15843-91-1
bis[bis(2-hydroxyethyl)dithiocarbamato-S,S']nickel	52486-99-4
bis[di(3,5,5-trimethylhexyl)dithiocarbamato-S,S']nickel	84604-95-5
bis[N-(2,4-dimethoxyphenyl)-2,3-bis(hydroxyimino)butyramidato-N2,N3]nickel	85269-39-2
bis[N-(2-hydroxyethyl)-N-methylglycinato-N,O,on]nickel	76625-10-0
bismuth, compound with nickel (1:1)	12688-64-1
butanedioic acid, 2,3-dihydroxy- [R-(R*,R*)]-, nickel(2+) salt (2:1)	67952-41-4
C.I. Reactive green 12	72152-45-5
cobalt lithium manganese nickel oxide	182442-95-1
	346417-97-8
carbonic acid, nickel salt	16337-84-1
carbonic acid, nickel(2+) salt (2:1)	17237-93-3
cassiterite, cobalt manganese nickel grey	99749-23-2

Substance Group name	
Substance	**CAS №**
chloric acid, nickel(2+) salt	67952-43-6
citric acid , ammonium nickel salt	18283-82-4
citric acid, nickel salt	22605-92-1
cobalt molybdenum nickel oxide (CoMo2NiO8)	68016-03-5
cobalt nickel oxide (CoNiO2)	58591-45-0
cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-44-7
copper(2+), bis(1,2-ethanediamine-N,N')-, (SP-4-1)-tetrakis(cyano-C)nickelate(2-) (1:1)	63427-32-7
copper, compound with lanthanum and nickel (4:1:1)	51912-52-8
cyclohexanebutanoic acid, nickel(2+) salt	3906-55-6
di-.mu.-carbonylbis(.eta.5-2,4-cyclopentadien-1-yl)dinickel	12170-92-2
diammonium tetrachloronickelate(2-)	99587-11-8
dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-84-5
diiron nickel tetraoxide	12168-54-6
diiron nickel zinc tetraoxide	97435-21-7
dimethoxy[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]nickel	83898-70-8
dimethylhexanoic acid, nickel salt	93983-68-7
dinickel hexacyanoferrate	14874-78-3
dinickel orthosilicate	13775-54-7
diphosphoric acid, nickel(2+) salt	19372-20-4
diphosphoric acid, nickel(2+) salt (1:2)	14448-18-1
dipotassium tetrafluoronickelate(2-)	13859-60-4
dipotassium tris(cyano-c)nickelate(2-)	39049-81-5
dysprosium, compound with nickel (1:2)	12175-27-8
ethanedioic acid, nickel(2+) salt (1:1)	547-67-1
ethyl hydrogen sulphate, nickel(2+) salt	71720-48-4
fatty acids, C6-19-branched, nickel salts	91697-41-5
fatty acids, C8-18 and C18-unsaturated, nickel salts	84776-45-4
formic acid, copper nickel salt	68134-59-8
formic acid, nickel(2+) salt	3349-06-2
hexaamminenickel(2+) bis[tetrafluoroborate(1-)]	13877-20-8
hexanoic acid, 2-ethyl-, nickel(2+) salt	4454-16-4
iron alloy, base,(Fe.Ni)(ferronickel)	11133-76-9
isononanoic acid, nickel(2+) salt	84852-37-9
Lanthanum, compound with nickel (1:5)	12196-72-4
leach residues, nickel-vanadium ore - residues from basic leaching of nickel-bearing vanadium ores. Composed primarily of silica and insoluble compounds of nickel and vanadium with minor quantities of other metals, such as arsenic, lead, tin and zinc.	84144-92-3
lithium nickel oxide (liniO2)	12031-65-1
molybdenum nickel oxide	12673-58-4
molybdenum nickel oxide (MoNiO4)	14177-55-0
naphthenic acids, nickel salts	61788-71-4
neodecanoic acid, nickel salt	51818-56-5
nickel	7440-02-0
nickel [R(R*,R*)]-tartrate	52022-10-3
nickel acetate	14998-37-9
nickel di(acetate) tetrahydrate / nickel acetate tetrahydrate	6018-89-9
nickel acrylate	51222-18-5
nickel alloy, base , Ni,Al	12635-29-9
nickel ammonium sulfate	15699-18-0
nickel arsenide (NiAs)	27016-75-7
nickel bis(benzenesulphonate)	39819-65-3
nickel bis(dihydrogen phosphate)	18718-11-1
nickel bis(phosphinate)	14507-36-9
nickel bis(piperidine-1-carbodithioate)	41476-75-9
nickel bisphosphinate	36026-88-7
nickel boride	12619-90-8
nickel boride (Ni2B)	12007-01-1
nickel boride (Ni3B)	12007-02-2
nickel boride (NiB)	12007-00-0
nickel bromide (NiBr2)	13462-88-9
nickel bromide (NiBr2), trihydrate	7789-49-3
nickel carbide	12710-36-0
nickel carbonate	3333-67-3
nickel carbonyl	12612-55-4

Substance Group name	
Substance	**CAS №**
nickel carbonyl	13463-39-3
nickel chloride	37211-05-5
nickel cyanide	557-19-7
nickel diarsenide	12068-61-0
nickel dibenzoate	553-71-9
nickel dibromate	14550-87-9
nickel dihydroxide hydrate	36897-37-7
nickel bis(dimethyldithiocarbamate) / nickel dimethyldithiocarbamate	15521-65-0
nickel dipotassium bis(sulphate)	13842-46-1
nickel dithiocyanate	13689-92-4
nickel fluoride (NiF2)	10028-18-9
nickel fluoride (NiF2), tetrahydrate	13940-83-5
nickel formate	15843-02-4
nickel hydrogen phosphate	14332-34-4
nickel hydroxide	11113-74-9
nickel hydroxide	12054-48-7
nickel hydroxide	12125-56-3
nickel isooctanoate	27637-46-3
nickel methacrylate	94275-78-2
nickel nitrate	14216-75-2
nickel nitrate / nickel nitrate (2+ salt)	13138-45-9
nickel nitrite	17861-62-0
nickel oxide	11099-02-8
nickel monoxide / nickel oxide	1313-99-1
dinickel trioxide / nickel oxide (Ni2O3)	1314-06-3
nickel oxide (NiO2)	12035-36-8
nickel perchlorate	13637-71-3
nickel phosphide (Ni2P)	12035-64-2
nickel potassium cyanide	14220-17-8
nickel selenate	15060-62-5
nickel selenide	1314-05-2
nickel silicide (Ni2Si)	12059-14-2
nickel silicide (NiSi)	12035-57-3
nickel silicide (NiSi2)	12201-89-7
nickel subsulfide	12035-72-2
nickel sulfate	7786-81-4
nickel sulfide (Ni2S3)	12259-56-2
nickel sulfide (NiS)	16812-54-7
nickel telluride	12142-88-0
nickel tin trioxide	12035-38-0
nickel titanium oxide	12035-39-1
nickel titanium oxide	12653-76-8
nickel titanium tungsten oxide (NiTi20W2O47)	69011-05-8
nickel tungsten oxide (NiWO4)	14177-51-6
nickel uranium oxide (NiU3O10)	15780-33-3
nickel uranyl tetraacetate, of uranium depleted in uranium-235	71767-12-9
nickel vanadium oxide (NiV2O6)	52502-12-2
nickel zirconium oxide (NiZrO3)	70692-93-2
nickel(1+), [1-(2-amino-4-imino-5(4H)-thiazolylidene)-N-[1-(2-amino-4-imino-5(4H)-thiazolylidene)-1H-isoindol-3-yl]-1H-isoindol-3-aminato]-, chloride	53199-85-2
nickel(2+) acrylate	60700-37-0
nickel(2+) hydrogen citrate	18721-51-2
nickel(2+) methacrylate	52496-91-0
nickel(2+) neodecanoate	85508-44-7
nickel(2+) neononanoate	93920-10-6
nickel(2+) neoundecanoate	93920-09-3
nickel(2+) oleate	13001-15-5
nickel(2+) palmitate	13654-40-5
nickel(2+) propionate	3349-08-4
nickel(2+) selenite	10101-96-9
nickel(2+) silicate	21784-78-1
nickel(2+) sulphite	7757-95-1
nickel(2+) trifluoroacetate	16083-14-0
nickel(2+), bis(1,2-ethanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	68958-89-4

Substance Group name	
Substance	**CAS №**
nickel(2+), bis(1,2-ethanediamine-N,N')-, salt with dimethylbenzenesulfonic acid (1:2)	71215-98-0
nickel(2+), bis(1,2-propanediamine)-, bis[dicyanoaurate(1-)]	18972-69-5
nickel(2+), bis(ethylenediamine)-, sulfate (1:1)	21264-77-7
nickel(2+), hexaammine-, (OC-6-11)-, diformate	68758-60-1
nickel(2+), hexakis(1H-imidazole-N3)-, (OC-6-11)-, 1,2-benzenedicarboxylate (1:1)	108818-89-9
nickel(2+), tris(1,2-ethanediamine-N,N')-, (OC-6-11)-, salt with dimethylbenzenesulfonic acid (1:2)	71215-97-9
nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, bis[tetrafluoroborate(1-)]	68309-97-7
nickel(2+), tris(4,7-diphenyl-1,10-phenanthroline-N1,N10)-, (OC-6-11)-, dinitrate	38780-90-4
nickel(2++), hexaammine-, (OC-6-11)-, carbonate (1:1)	67806-76-2
nickel(2++), hexaammine-, dihydroxide, (OC-6-11)-	51467-07-3
nickel(II) acetate	373-02-4
nickel chloride / nickel(II) chloride	7718-54-9
nickel(II) chloride hexahydrate (1:2:6)	7791-20-0
nickel(II) fluoborate	14708-14-6
nickel(II) fluosilicate	26043-11-8
nickel(II) fumarate	6283-67-6
nickel(II) iodide	13462-90-3
nickel(II) isodecanoate	85508-43-6
nickel(II) isooctanoate	29317-63-3
nitric acid, nickel(2+) salt, hexahydrate / nickel(II) nitrate, hexahydrate (1:2:6)	13478-00-7
nickel(II) sulfate hexahydrate (1:1:6)	10101-97-0
nickel, (2-ethylhexanoato-O)(trifluoroacetato-O)-	70776-98-6
nickel, (2-propanol)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenol,ato]](2-)-O,O',S]-	67763-27-3
nickel, (carbonato(2-))tetrahydroxytri-, tetrahydrate	39430-27-8
nickel, [(2-amino-2-oxoethoxy)acetato(2-)]-	68133-84-6
nickel, [.mu.-(piperazine-N1:N4)]bis[3-[1-[(4,5,6,7-tetrachloro-1-oxo-1H-isoindol-3-yl)hydrazono]ethyl]-2,4(1H,3H)-quinolinedionato(2-)]di-	71889-22-0
nickel, [[1,1'-[1,2-phenylenebis(nitrilomethylidyne)]bis[2-naphthalenolato]](2-)-N,N',O,O']-, (SP-4-	20437-10-9
nickel, [[2,2'-[methylenebis(thio)]bis[acetato]](2-)]-	71215-73-1
nickel, [[2,2'-sulfonylbis[4-(1,1,3,3-tetramethylbutyl)phenol,ato]](2-)-O1,O1',O2]-	16432-37-4
nickel, [[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenol,ato]](2-)-O,O',S]-	27574-34-1
nickel, [1,3-dihydro-5,6-bis[[(2-hydroxy-1-naphthalenyl)methylene]amino]-2H-benzimidazol-2-onato(2-)-N5,N6,O5,O6]-, (SP-4-2)-	42844-93-9
nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	14055-02-8
nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, [[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl sulfo derivitives, sodium salts	90459-35-1
nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivitives, reaction products with 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate monosodium salt, potassium sodium salts, compounds with pyridine	93573-17-2
nickel, [29H,31H-phthalocyanine-C,C,C,C-tetrasulfonyl tetrachloridato(2)-N29,N30,N31,N32]-	28680-76-4
nickel, [2-hydroxybenzoic acid [3-[1-cyano-2-(methylamino)-2-oxoethylidene]-2,3-dihydro-1H-isoindol-1-ylidene]hydrazidato(2-)]-	85958-80-1
nickel, [carbonato(2-)]hexahydroxytetra-	12334-31-5
nickel, [N-(4-chlorophenyl)-2-[3-[[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]methylene]hydrazino]-1H-isoindol-1-ylidene]-2-cyanoacetamidato(2-)]-	71889-20-8
nickel, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	13869-33-5
nickel, [N,N',N'',N'''-tetrakis[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C,C-tetrasulfonamidato(2-)-N29,N30,N31,N32]-	72986-45-9
nickel, [N,N',N''-tris[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-phthalocyanine-C,C,C-trisulfonamidato(2-)-N29,N30,N31,N32]-	72252-57-4
nickel, 2,2'-thiobis[4-nonylphenol,] complexes	85480-75-7
nickel, acetate carbonate C8-10-branched fatty acids C9-11-neofatty acids complexes	90459-30-6
nickel, acetylacetone 6-methyl-2,4-heptanedione complexes	90459-34-0
nickel, aqua[2-[(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl)azo]benzoato(2-)]-	106316-55-6
nickel, bis(2,4-pentanedionato-O,O')-, (SP-4-1)-	3264-82-2
nickel, bis(2-heptadecyl-1H-imidazole-N3)bis(octanoato-O)-	68912-08-3
nickel, bis(3-amino-4,5,6,7-tetrachloro-1H-isoindol-1-one oximato-N2,O1)-	70833-37-3
nickel, bis(dibutylcarbamodithioato-S,S')-, (SP-4-1)-	13927-77-0
nickel, bis(diethylcarbamodithioato-S,S')-, (SP-4-1)-	14267-17-5
nickel, bis(diisononylcarbamodithioato-,')-	85298-61-9
nickel, bis(dipentylcarbamodithioato-S,S')-, (SP-4-1)-	36259-37-7

Substance Group name	
Substance	**CAS №**
nickel, bis(phenyldiazenecarbothioic acid 2-phenylhydrazidato)-	36545-21-8
nickel, bis[(2-hydroxy-4-octylphenyl)phenylmethanonato-O,O']-	68189-15-1
nickel, bis[(cyano-C)triphenylborato(1-)-N]bis(hexanedinitrile-N,N')-	83864-02-2
nickel, bis[[didecyl (1,2-dicyano-1,2-ethenediyl)bis[carbamato]](2-)]-	77245-35-3
nickel, bis[1,2-bis(4-methoxyphenyl)-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	38951-97-2
nickel, bis[1,2-diphenyl-1,2-ethenedithiolato(2-)-S,S']-, (SP-4-1)-	28984-20-5
nickel, bis[1-[4-(diethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	51449-18-4
nickel, bis[1-[4-(dimethylamino)phenyl]-2-phenyl-1,2-ethenedithiolato(2-)-S,S']-	38465-55-3
nickel, bis[2,3-bis(hydroxyimino)-N-(2-methoxyphenyl)butanamidato]-	42739-61-7
nickel, bis[2,3-bis(hydroxyimino)-N-phenylbutanamidato-N2,N3]-	29204-84-0
nickel, bis[2,4-dihydro-5-methyl-4-(1-oxodecyl)-2-phenyl-3H-pyrazol-3-onato-O,O']-	56557-00-7
nickel, bis[2-butene-2,3-dithiolato(2-)-S,S']-, (SP-4-1)-	38951-94-9
nickel, bis[3-[(4-chlorophenyl)azo]-2,4(1H,3H)-quinolinedionato]-	51931-46-5
nickel, bis[bis(2-methylpropyl)carbamodithioato-S,S']-, (SP-4-1)-	15317-78-9
nickel, bis[N-hydroxy-3-(hydroxyimino)-N'-(2-methoxyphenyl)butanimidamidato-N',N3]-	71605-83-9
nickel, borate C8-10-branched carboxylate complexes	90459-31-7
nickel, borate neodecanoate complexes	92502-55-1
nickel, C4-10 fatty acids naphthenate complexes	93573-15-0
nickel, C4-10 fatty acids octanoate complexes	93573-16-1
nickel, C5-23-branched carboxylate C4-10 fatty acids complexes	93762-59-5
nickel, C5-23-branched carboxylate C4-10-fatty acids naphthenate complexes	93573-14-9
nickel, C5-23-branched carboxylate naphthenate complexes	92200-98-1
nickel, C5-25-branched carboxylate naphthenate octanoate complexes	92200-99-2
nickel, C5-C23-branched carboxylate octanoate complexes	90459-32-8
nickel, compound with niobium (1:1)	12034-55-8
nickel, compound with tin (3:1)	12059-23-3
nickel, compound with zirconium (1:2)	12142-92-6
nickel, dichlorobis(triphenylphosphine)-	14264-16-5
nickel, isodecanoate naphthenate complexes	85585-97-3
nickel, isononanoate naphthenate complexes	85585-98-4
nickel, isooctanoate naphthenate complexes	90459-33-9
nickel, naphthenate neodecanoate complexes	85585-99-5
nickel, tetrakis(triphenyl phosphite-P)-, (T-4)-	14221-00-2
nickel, tetrakis[tris(methylphenyl) phosphite-P]-	35884-66-3
nickel,[6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11, 20-tetrahydrodibenzo[c,j]dipyrazolo[3,4-f:3',4'-m][1,2,5,8,9,12] hexaazacyclotetradecinato(2-)-	79745-01-0
nickelate(1-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, potassium, (OC-6-21)-	67906-12-1
nickelate(1-), [3,4-bis[[(2-hydroxy-1-naphthalenyl)methylene]amino]benzoato(3-)-N3,N4,O3,O4]-,	61300-98-9
nickelate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']-, hydrogen, (T-4)-	34831-03-3
nickelate(1-), trichloro-, ammonium	24640-21-9
nickelate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, dihydrogen, (OC-6-21)-	25481-21-4
nickelate(2-), tetrakis(cyano-C)-, disodium, (SP-4-1)-	14038-85-8
nickelate(3-), [22-[[[3-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]phenyl]amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium, (SP-4-2)-	71243-96-4
nickelate(3-), [5-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-3-[(2-hydroxy-3-nitro-5-sulfophenyl)azo]-2,7-naphthalenedisulfonato(5-)]-, trisodium	79817-91-7
nickelate(3-), [C-[[[3-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]phenyl]amino]sulfonyl]-C,C,C-tris(aminosulfonyl)-29H,31H-phthalocyanine-C,C,C-trisulfonato(5-)-N29,N30,N31,N32]-, trisodium	72229-81-3
nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, triammonium, (T-4)-	68025-40-1
nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, tripotassium, (T-4)-	63597-34-2
nickelate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, trisodium,(T-4)-	68025-41-2
nickelate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, tetrapotassium, (T-4)-	63588-33-0
nickelate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, tetrasodium, (T-4)-	68052-00-6
nickelate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, triammonium hydrogen, (T-4)-	67968-22-3
nickelate(4-), [22-[[(4-sulfophenyl)amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen, (SP-4-2)-	70729-79-2

Substance Group name	
Substance	**CAS №**
nickelate(4-), [bis[[[3-[[4,5-dihydro-3-methyl-5-oxo-1-[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]-1H-pyrazol-4-yl]azo]phenyl]amino]sulfonyl]-29H,31H-phthalocyaninedisulfonato(6-)-N29,N30,N31,N32]-, sodium	90459-36-2
nickelate(6-), [4-[[5-[[(3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-[2-sulfo-5-[[(trisulfo-29H,31H-phthalocyaninyl)sulfonyl]amino]phenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-, hexasodium	93891-86-2
nickelate(6-), [4-[[5-[[(3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-[5-[[(trisulfo-29H,31H-phthalocyaninyl)sulfonyl]amino]-2-sulfophenyl]-1H-pyrazole-3-carboxylato(8-)-N29,N30,N31,N32]-,hexahydrogen	68698-80-6
nickelate(6-), [C-[[[3-[[4,5-dihydro-3-methyl-5-oxo-1-[3-sulfo-4-[2-[2-sulfo-4-[(2,5,6-trichloro-4-pyrimidinyl)amino]phenyl]ethenyl]phenyl]-1H-pyrazol-4-yl]azo]-4-sulfophenyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C,C-trisulfonato(8-)-N29,N30,N31,N32]-,	72453-55-5
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentaammonium hydrogen,(OC-6-21)-	68958-86-1
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentapotassium hydrogen,(OC-6-21)-	68958-87-2
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentasodium hydrogen,(OC-6-21)-	68958-88-3
nickelate(8-), bis[3-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-2-hydroxy-5-sulfobenzoato(5-)]-, hexasodium dihydrogen	72139-08-3
nickelocene	1271-28-9
octadecanoic acid, nickel(2+) salt	2223-95-2
octanoic acid, nickel(2+) salt	4995-91-9
Oxalic acid, nickel salt	20543-06-0
perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
phosphonic acid, [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]-, monoethyl ester, nickel(2+)	30947-30-9
phosphoric acid, calcium nickel salt	17169-61-8
nickel phosphate / phosphoric acid, nickel(2+) salt (2:3)	10381-36-9
potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O"]nickelate(1-)	63640-18-6
Rammelsbergite (NiAs2)	1303-22-6
silicic acid (H2SiO3), nickel(2+) salt (4:3)	31748-25-1
Spinels, cobalt nickel zinc grey	95046-47-2
Sulfamic acid, nickel(2+) salt (2:1)	13770-89-3
sulfuric acid, ammonium nickel(2+) salt	7785-20-8
sulfuric acid, nickel salt, reaction products with sulfurized calcium phenol,ate	72162-32-4
nickel(II) sulfate heptahydrate / sulfuric acid, nickel(2+) salt (1:1), heptahydrate	10101-98-1
sulfuric acid, nickel(2+) salt (1:1), reaction products with nickel and nickel oxide (NiO)	68585-48-8
telluric acid (H2TeO3), nickel(2+) salt (1:1)	15851-52-2
telluric acid (H2TeO4), nickel(2+) salt (1:1)	15852-21-8
tetrahydrogen [[[(3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	79102-62-8
tetrakis(trifluorophosphine)nickel	13859-65-9
tetrasodium [[[(3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-)-N29,N30,N31,N32]nickelate(4-)	93939-76-5
tetrasodium [bis[[[4-[[2-(sulphooxy)ethyl]sulphonyl]phenyl]amino]sulphonyl]-29H,31H-phthalocyaninedisulphonato(6)-N29,N30,N31,N32]nickelate(4-)	97280-68-7
Titanate(2-), hexafluoro-, nickel(2+), (1:1), (OC-6-11)-	34109-80-3
trinickel bis(arsenate)	13477-70-8
Zirconate(2-), hexafluoro-, nickel(2+) (1:1), (OC-6-11)-	30868-55-4
Zirconium alloy, base, Zr 40-82, Ni 18-60	42612-06-6
Aluminiummagnesiumnickelsiliziumoxide	198831-12-8
antimony nickel titanium oxide yellow	8007-18-9
iron nickel zinc oxide	12645-50-0
methyl 3-chlorobenzothiophene-2-carboxylate	14406-71-4
5,5-azobis(2,4,6-pyrimidinetriol), nickel complex	68511-62-6
chrome iron nickel black spinel	71631-15-7
nickel niobium titanium yellow rutile	68611-43-8
nickel phosphate	14396-43-1
nickel sulfide	11113-75-0
phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2)	90053-13-7
phosphoric acid,compounds,nickel(2+) zinc salt (2:1:2) tetrahydrate	501953-51-1
nickel compounds	AL34

Substance Group name	
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arsenic and its compounds	
monoammonium methane arsonate	2321-53-1
dimethylarsinic acid ; cacodylic acid	75-60-5
benzenearsonic acid	98-05-5
arsenic pentafluoride	7784-36-3
arsenic pentachloride	22441-45-8
arsenic disulfide	1303-32-8
2,6-dimethyl-4-(1-naphthyl)pyrylium hexafluoroarsenate	84282-36-0
2,6-dimethyl-4-phenylpyrylium hexafluoroarsenate	84304-15-4
4-cyclohexyl-2,6-dimethylpyrylium hexafluoroarsenate	84304-16-5
6,6'-dihydroxy-3,3'-diarsene-1,2-diyldianilinium dichloride	139-93-5
aluminum arsenide (AlAs)	22831-42-1
aluminum gallium arsenide ((Al,Ga)As)	37382-15-3
ammonium arsenate	7784-44-3
ammonium-magnesium-arsenat	14644-70-3
antimony arsenate	28980-47-4
antimony arsenic oxide	64475-90-7
antimony arsenide (Sb3As)	12255-36-6
antimony oxide (Sb2O3), mixed with arsenic oxide (As2O3)	68951-38-2
arsenargentite (Ag3As)	12417-99-1
arsenate(1-), hexafluoro-, hydrogen	17068-85-8
arsenate(1-), hexafluoro-, lithium	29935-35-1
arsenate(1-), hexafluoro-, potassium	17029-22-0
arsenate, dimethyl, sodium	6131-99-3
arsenenous acid, lithium salt	72845-34-2
arsenic acid	1327-52-2 7778-39-4
arsenic acid (H3AsO4), ammonium copper(2+) salt (1:1:1)	32680-29-8
arsenic acid (H3AsO4), barium salt (2:3)	13477-04-8
arsenic acid (H3AsO4), bismuth salt (1:1)	13702-38-0
arsenic acid (H3AsO4), cobalt(2+) salt (2:3)	24719-19-5
arsenic acid (H3AsO4), copper salt	10103-61-4
arsenic acid (H3AsO4), copper(2+) salt (2:3)	7778-41-8
arsenic acid (H3AsO4), dipotassium salt	21093-83-4
arsenic acid (H3AsO4), magnesium salt, manganese-doped	102110-21-4
arsenic acid (H3AsO4), monoammonium salt	13462-93-6
arsenic acid (H3AsO4), strontium salt (2:3)	13464-68-1
arsenic acid (H3AsO4), trilithium salt	13478-14-3
arsenic acid (H3AsO4), trisilver(1+) salt	13510-44-6
arsenic acid, lead (4+) salt	53404-12-9
arsenic acid, trisodium salt	13464-38-5
arsenic bromide	64973-06-4 7784-33-0
arsenic chloride	37226-49-6
arsenic sulfide (AsS2)	56320-22-0
arsenic pentoxide	1303-28-2
arsenic selenide (As2Se3)	1303-36-2
arsenic sulfide	12612-21-4
arsenic sulfide (As2S4)	12344-68-2
arsenic telluride (As2Te3)	12044-54-1
arsenic trichloride	60646-36-8
arsenic trioxide	1327-53-3
arsenic trisulfide	1303-33-9
arsenic, elemental	7440-38-2
arsenopyrite, cobaltoan	12414-94-7
arsenous acid, trisodium salt	13464-37-4
arsenous trichloride	7784-34-1
arsenous trifluoride	7784-35-2
arsenous triiodide	7784-45-4
barium arsenide (Ba3As2)	12255-50-4
benzenediazonium, 3-methyl-4-(1-pyrrolidinyl)-, hexafluoroarsenate(1-)	27569-09-1
benzenediazonium, 4-(diethylamino)-2-ethoxy-, hexafluoroarsenate(1-)	63217-33-4
benzenediazonium, 4-(ethylamino)-2-methyl-, hexafluoroarsenate(1-)	63217-32-3
benzenesulfonic acid, 4-arsenoso-	71130-51-3

Substance Group name	
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benzenesulfonic acid, 4-arsenoso-, sodium salt	71130-50-2
boron(1+), bis(2,4-pentanedionato-O,O')-, (T-4)-, hexafluoroarsenate(1-)	68892-01-3
calcium arsenate	10103-62-5 7778-44-1
calcium arsenide (Ca3As2)	12255-53-7
calcium arsenite	52740-16-6
calcium arsenite (2:1)	15194-98-6
calcium arsenite (2:3)	27152-57-4
cobalt arsenide (CoAs)	27016-73-5
cobalt arsenide (CoAs2)	12044-42-7
cobalt arsenide (CoAs3)	12256-04-1
copper acetoarsenite	12002-03-8
copper arsenate	29871-13-4
copper arsenate hydroxide (Cu2(AsO4)(OH))	12774-48-0
copper arsenide (Cu3As)	12005-75-3
copper arsenite	10290-12-7 33382-64-8
copper diarsenite	16509-22-1
diarsenic acid	13453-15-1
diphenyldiarsenic acid	4519-32-8
disodium hydrogen arsenate	10048-95-0 7778-43-0
dysprosium arsenide (DyAs)	12005-81-1
erbium arsenide (ErAs)	12254-88-5
europium arsenide (EuAs)	32775-46-5
ferric arsenate	10102-49-5
ferric arsenite	63989-69-5
ferrous arsenate	10102-50-8
gadolinium arsenide (GdAs)	12005-89-9
gallium arsenide	1303-00-0
gallium arsenide phosphide (Ga2AsP)	12044-20-1
gallium zinc triarsenide	98106-56-0
germanium arsenide (GeAs)	12271-72-6
holmium arsenide (HoAs)	12005-92-4
indium arsenide (InAs)	1303-11-3
iodonium, diphenyl-, hexafluoroarsenate(1-)	62613-15-4
iron arsenide (Fe2As)	12005-88-8
iron arsenide (FeAs)	12044-16-5
iron arsenide (FeAs2)	12006-21-2
lanthanum arsenide (LaAs)	12255-04-8
lithium arsenide (Li3As)	12044-22-3
lutetium arsenide (LuAs)	12005-94-6
magnesium arsenate	10103-50-1
magnesium arsenide (Mg3As2)	12044-49-4
manganese arsenide (Mn2As)	12005-96-8
manganese arsenide (MnAs)	12005-95-7
manganese hydrogenarsenate	7784-38-5
metaarsenic acid	10102-53-1
methylium, triphenyl-, hexafluoroarsenate(1-)	437-15-0
n-(p-Arsenosophenyl)-1,3,5-triazine-2,4,6-triamine	21840-08-4
neodymium arsenide (NdAs)	12255-09-3
nickel arsenide (NiAs)	27016-75-7
nickel diarsenide	12068-61-0
niobium arsenide (NbAs)	12255-08-2
platinum arsenide (PtAs2)	12044-52-9
potassium arsenate	7784-41-0
potassium arsenide (K3As)	12044-21-2
potassium arsenite	10124-50-2 13464-35-2
praseodymium arsenide (PrAs)	12044-28-9
rammelsbergite (NiAs2)	12303-22-6
samarium arsenide (SmAs)	12255-39-9
silicic acid (H4SiO4), tetraethyl ester, polymer with arsenic oxide(As2O3)	68957-75-5
silicon(1+), tris(2,4-pentanedionato-O,O')-, (OC-6-11)-, hexafluoroarsenate(1-)	67251-38-1

Substance Group name	
Substance	**CAS №**
silver arsenide (Ag2As)	70333-07-2
silver arsenite	7784-08-9
sodium arsenate	7631-89-2
sodium arsenide (Na3As)	12044-25-6
sodium arsenite	7784-46-5
sodium metaarsenate	15120-17-9
strontium arsenide (Sr3As2)	39297-24-0
strontium arsenite	15195-06-9 91724-16-2
strychnidin-10-one, arsenite (1:1)	100258-44-4
strychnine arsenate	10476-82-1
sulfonium, triphenyl-, hexafluoroarsenate(1-)	57900-42-2
terbium arsenide (TbAs)	12006-08-5
thallium arsenide (TlAs)	12006-09-6
thallium triarsenide	84057-85-2
thulium arsenide (TmAs)	12006-10-9
triammonium arsenate	24719-13-9
triethyl arsenate	15606-95-8
triethyl arsenite	3141-12-6
trimanganese arsenide	61219-26-9
trinickel bis(arsenate)	13477-70-8
tris[(8a)-6'-methoxycinchonan-9(R)-ol] arsenite	94138-87-1
tris[(8a,9R)-6'-methoxycinchonan-9-ol] bis(arsenate)	549-59-7
vanadium(4+) diarsenate (1:1)	99035-51-5
ytterbium arsenide (YbAs)	12006-12-1
yttrium arsenide (YAs)	12255-48-0
zinc arsenate	1303-39-5
zinc arsenate	13464-44-3
zinc arsenide (Zn3As2)	12006-40-5
zinc arsenide (ZnAs2)	12044-55-2
zinc arsenite	10326-24-6
zirconium arsenide (ZrAs)	60909-47-9
arsorous acid	13464-58-9
arsin	7784-42-1
diphenoxarsin-10-yloxid	58-36-6
arsenic compounds	AL36
organophosphorus compounds	
triphenyl phosphate	115-86-6
tritolyl phosphate	1330-78-5
triethyl phosphate	78-40-0
diphenyl tolyl phosphate	26444-49-5
tris(2-chloroethyl)phosphate	115-96-8
phosphoric acid tributylester	126-73-8
phosphoric acid, tris(2-methylphenyl) ester	78-30-8
trimethylphosphate	512-56-1
tris-(1-aziridinyl) phosphine oxide	545-55-1
tris(2,3-dibromopropyl)phosphate [tris]	126-72-7
organic phosphorus compounds	AL39
polyvinyl chloride	
poly(vinyl chloride)	9002-86-2 25037-47-2 26793-37-3
Other polyvinyl chlorides	AL41
PVC copolymers	AL41
brominated flame retardants	
brominated flame retardant which comes under notation of iso 1043-4 code number FR(14) [aliphatic/alicyclic brominated compounds]	FR(14)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(15) [aliphatic/alicyclic brominated compounds in combination with antimony compounds]	FR(15)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(16) [aromatic brominated compounds（excluding brominated diphenyl ether and biphenyls）]	FR(16)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(17) [aromatic brominated compounds（excluding brominated diphenyl ether and biphenyls）in combination with antimony compounds]	FR(17)

Substance Group name	
Substance	**CAS №**
brominated flame retardant which comes under notation of iso 1043-4 code number FR(22) [aliphatic/alicyclic chlorinated and brominated compounds]	FR(22)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(42) [brominated organic phosphorus compounds]	FR(42)
poly(2,6-dibromo-phenylene oxide)	69882-11-7
tetra-decabromo-diphenoxy-benzene	58965-66-5
1,2-bis(2,4,6-tribromo-phenoxy) ethane	37853-59-1
TBBA, unspecified	30496-13-0
TBBA-epichlorhydrin oligomer	40039-93-8
TBBA-TBBA-diglycidyl-ether oligomer	70682-74-5
TBBA carbonate oligomer	28906-13-0
TBBA carbonate oligomer, phenoxy end capped	94334-64-2
TBBA carbonate oligomer, 2,4,6-tribromo-phenol, terminated	71342-77-3
TBBA-bisphenol, a-phosgene polymer	32844-27-2
brominated epoxy resin end-capped with tribromophenol,	139638-58-7
brominated epoxy resin end-capped with tribromophenol,	135229-48-0
TBBA-(2,3-dibromo-propyl-ether)	21850-44-2
TBBA bis-(2-hydroxy-ethyl-ether)	4162-45-2
TBBA-bis-(allyl-ether)	25327-89-3
TBBA-dimethyl-ether	37853-61-5
4,4'-sulphonylbis[2,6-dibromophenol,]	39635-79-5
TBBS-bis-(2,3-dibromo-propyl-ether)	42757-55-1
2,4-dibromo-phenol,	615-58-7
2,4,6-tribromo-phenol,	118-79-6
pentabromo-phenol,	608-71-9
2,4,6-tribromo-phenyl-alltl-ether	3278-89-5
tribromo-phenyl-allyl-ether, unspecified	26762-91-4
1,1,2,2-tetrabromoethane	79-27-6
hexabromobenzene	87-82-1
bis(methyl)tetrabromo-phtalate	55481-60-2
phthalic acid, 3,4,5,6-tetrabromo-, bis(2-ethylhexyl) ester	26040-51-7
2-(2-hydroxyethoxy)ethyl 2-hydroxypropyl 3,4,5,6-tetrabromophthalate	20566-35-2
TBPA, glycol-and propylene-oxide esters	75790-69-1
1h-isoindole-1,3(2H)-dione, 2,2'-(1,2-ethanediyl)bis[4,5,6,7-tetrabromo-	32588-76-4
n,n'-(ethylene)bis[4,5-dibromohexahydro-3,6-methanophthalimide]	52907-07-0
2,3-dibromo-2-butene-1,4-diol	3234-02-4
2,2-bis(bromomethyl)propane-1,3-diol	3296-90-0
2,3-dibromopropan-1-ol	96-13-9
3-bromo-2,2-bis(bromomethyl)propan-1-ol	36483-57-5
poly(tribromostyrene)	57137-10-7
tribromostyrene	61368-34-1
benzene, ethenyl-, ar-bromo derivs., polymers with propene, graft	171091-06-8
dibromostyrene	31780-26-4
alkanes, C10-18, bromo chloro	68955-41-9
bromo-/chloro-alpha-olefin	82600-56-4
bromoethylene	593-60-2
1,3,5-tris(2,3-dibromopropyl)-1,3,5-triazine-2,4,6(1h,3h,5h)-trione	52434-90-9
tris(dibromophenyl) phosphate	49690-63-3
tris[3-bromo-2,2-bis(bromomethyl)propan-1-yl] phosphate	19186-97-1
phosphoric acid, mixed 3-bromo-2,2-dimethylpropyl and 2-bromoethyl and 2-chloroethyl esters	125997-20-8
2,3,4,5,6-pentabromotoluene	87-83-2
2,3,4,5,6,alpha-hexabromotoluene	38521-51-6
1,3-butadiene, homopolymer, brominated	68441-46-3
(pentabromophenyl)methyl acrylate	59447-55-1
2-propenoic acid, (2,3,4,5,6-pentabromophenyl)methyl ester, homopolymer	59447-57-3
1,1'-(ethane-1,2-diyl)bis[2,3,4,5,6-pentabromobenzene]	84852-53-9
1h-pyrrole-2,5-dione, 1-(2,4,6-tribromophenyl)-	59789-51-4
tetrabromocyclooctane	31454-48-5
1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane	3322-93-8
disodium tetrabromophthalate	25357-79-3
3,5,3',5'-tetrabromo-bisphenol, A (TBBA)	79-94-7
hexabromocyclododecane(HBCDD)	25637-99-4 3194-55-6
α-hexabromocyclododecane	134237-50-6

Substance Group name	
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β-hexabromocyclododecane	134237-51-7
γ-hexabromocyclododecane	134237-52-8
phthalic anhydride, tetrabromo-	632-79-1
1H-indene, 2,3-dihydro-1,1,3-trimethyl-3-phenyl-, octabromo deriv.	155613-93-7
monomethyldibromodiphenylmethane	99688-47-8
monomethyldichlorodiphenylmethane	81161-70-8
dodecabromoterphenyl	79596-31-9
undecabromoterphenyl	83929-80-0
4-bromo-p-terphenyl	1762-84-1
2-bromo-p-terphenyl	3282-24-4 75295-57-7
4,4'-dibromo-p-terphenyl	17788-94-2
3-bromo-p-terphenyl	1762-87-4
brominated flame retardants	AL42
phthalic esters	
benzyl butan-1-yl phthalate / benzylbutylphthalate (BBP) / bis(2-methoxyethyl)phthalate	85-68-7
bis(2-ethylhexan-1-yl) phthalate / di(2-ethylhexyl)phthalate (DEHP)	117-81-7
dibutan-1-yl phthalate / dibutyl phthalate (DBP)	84-74-2
di-isononyl phthalate, phthalic acid, di-C8-10 branched alkyl esters C9 rich	28553-12-0 68515-48-0
1,2-benzenedicarboxylic acid diisodecyl ester（di-isodecyl phthalate） phthalic acid, di-C9-11 branched alkyl esters C10 rich	26761-40-0 68515-49-1
di-n-octyl phthalate	117-84-0
di-ethyl phthalate	84-66-2
di-cyclohexyl phthalate	84-61-7
di-n-propyl phthalate	131-16-8
di-n-hexyl phthalate	84-75-3
di-methyl phthalate	131-11-3
di-n-heptyl phthalate	3648-21-3
bis(2-methoxyethyl)phthalate	117-82-8
d-iisobutyl phthalate / diisobutylphthatlate (DIBP)	84-69-5
diisopentylphthalate (DIPP)	605-50-5
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
(1,2-benzenedicarboxylic acid, diundecyl ester)	3648-20-2
(1,2-benzenedicarboxylic acid, diheptyl ester, branched and linear)	68515-44-6
(1,2-benzenedicarboxylic acid, dinonyl ester, branched and linear)	68515-45-7
(1,2-benzenedicarboxylic acid, heptyl nonyl ester, branched and linear)	111381-89-6
(1,2-benzenedicarboxylic acid, heptyl undecyl ester, branched and linear)	111381-90-9
(1,2-benzenedicarboxylic acid, nonyl undecyl ester, branched and linear)	111381-91-0
di-n-pentyl phthalate	131-18-0
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	131-18-0
phthalic esters	AL43
perfluorooctane sulfonate and its related substances	
PFOS related substances	AL46
perfluoroctane sulfonate acid	1763-23-1
perfluoroctane sulfonate anion	45298-90-6
perfluoro-1-octanesulfonyl fluoride	307-35-7
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
glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt	2991-51-7
perfluorooctane sulufonate / perfluorooctane sulfonate potasium salt	2795-39-3
perfluorooctane sulfonate ammonium salt	29081-56-9
perfluorooctane sulfonate lithium salt	29457-72-5
tetraethylammoniumheptadecafluoroctansulfonate	56773-42-3
polycyclic aromatic hydrocarbons and its mixtures	
anthracene oil	90640-80-5
anthracene oil, anthracene paste, distn. lights	91995-17-4
anthracene oil, anthracene paste, anthracene fraction	91995-15-2
anthracene oil, anthracene-low	90640-82-7
anthracene oil, anthracenepaste	90640-81-6
acenaphthylene	208-96-8

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Substance	**CAS №**
acenaphthene	83-32-9
fluorene	86-73-7
phenanthrene	85-01-8
fluoranthene	206-44-0
pyrene	129-00-0
benzo[ghi]fluoranthene	203-12-3
cyclopenta[cd]pyrene	27208-37-3
perylene	198-55-0
indeno[1,2,3-c,d]pyrene	193-39-5
benzo[g,h,i]perylene	191-24-2
dibenzo[def,mno]chrysene	191-26-4
coronene	191-07-1
naphthalene	91-20-3
9,10-anthracenedione, 1-[(5,7-dichloro-1,9-dihydro-2-methyl-9-oxopyrazolo[5,1-b]quinazolin-3-	74336-60-0
polycyclic aromatic hydrocarbons (PAH; PCAH) in extender oils and extender oils in tyres, selected	AL49-1
polycyclic aromatic hydrocarbons (PAH; PCAH) in polymers, selected	AL49-2
benzo[a]pyrene	50-32-8
benzo[e]pyrene	192-97-2
anthracene	120-12-7
benzo[a]anthracene	56-55-3
chrysene	218-01-9
benz(j)fluoranthene	205-82-3
benzo[k]fluoranthene	207-08-9
dibenz[a,h]anthracene	53-70-3
benzo[b]fluoranthene / benz(e)acephenanthrylene	205-99-2
Other polycyclic aromatic hydrocarbons and its mixtures	AL49
cobalt compounds	
cobalt(II) sulphate / sulfuric acid, cobalt(2+) salt (1:1)-	10124-43-3
sodium [4-[[6-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-1-hydroxy-3-sulpho-2-naphthyl]azo]-3-hydroxy-7-nitronaphthalene-1-sulphonato(4-)]cobaltate(1-)	100231-59-2
(ethylenediamine-N)(1-imino-1H-isoindol-3-aminato-N2)[29H,31H-phthalocyaninato-	83898-69-5
[.mu.-[carbonato(2-)-O:O']]dihydroxydicobalt	12069-68-0
[5,10,15,20-tetraphenyl-21H,23H-porphinato(2-)-N21,N22,N23,N24]cobalt	14172-90-8
1,2,4-benzenetricarboxylic acid, cobalt(2+) salt (1:1)	67801-57-4
1,4-benzenedicarboxylic acid, cobalt salt	34262-88-9
1,4-benzenedicarboxylic acid, monomethyl ester, cobalt(2+) salt	51084-32-3
benzothiazole-2(3H)-thione, cobalt (2+) salt	29904-98-1
cobalt(2+) methacrylate	67952-53-8
cobalt(2+) acrylate	58197-53-8
cobalt (9Z,12Z)-octadeca-9,12-dienoate	14666-96-7
cobalt oleate	14666-94-5
acetic acid, bromo-, cobalt(2+) salt	54846-43-4
cobalt(II) acetate tetrahydrate	6147-53-1
cobalt triacetate	917-69-1
adipic acid, cobalt salt	54437-56-8
aluminum boron cobalt lithium nickel oxide	207803-51-8
aluminum cobalt lithium nickel oxide	193214-24-3
aluminum cobalt oxide (AlCoO)	12672-27-4
aluminum cobalt oxide (Al2CoO4)	1333-88-6
ammonium bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxidato(2-)]cobaltate(1-)	83847-05-6
ammonium cobalt orthophosphate	36835-61-7
antimony, compound with cobalt (1:1)	12052-42-5
arsenic acid (H3AsO4), cobalt(2+) salt (2:3)	24719-19-5
benzoic acid, 4-amino-, cobalt(2+) salt (2:1)	68123-03-5
benzoic acid, methyl-, cobalt salt	42978-77-8
bis(1,3-diphenylpropane-1,3-dionato-O,O')cobalt	14405-50-6
bis(1-phenylbutane-1,3-dionato-O,O')cobalt	14128-95-1
bis(6-methylheptane-2,4-dionato-O,O')cobalt	79215-59-1
bis(D-gluconato-O1,O2)cobalt	71957-08-9
bis(dibutyldithiocarbamato-S,S')cobalt	14591-57-2
bis(diethyldithiocarbamato-S,S')cobalt	15974-34-2
bis(N,N-dimethylpropane-1,3-diamine-N')[2,3,9,10,16,17,23,24-octahydro-29H,31H-tetrakis[1,4]dithiino[2,3-b:2',3'-g:2",3"-l:2"',3"'-q]porphyrazinato(2-)-N29,N30,N31,N32]cobalt	83863-98-3

Substance Group name	
Substance	**CAS №**
bis(N,N-dimethylpropane-1,3-diamine-N')[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]cobalt	83863-97-2
bis[2-[(5-chloro-2-pyridyl)azo]-5-(diethylamino)phenol,ato]cobalt(1+) chloride	81342-98-5
carbonic acid, cobalt salt	7542-09-8
cassiterite, cobalt manganese nickel grey	99749-23-2
cerium, compound with cobalt (1:5)	12214-13-0
cerium, compound with cobalt (2:7)	12515-29-6
chloro[2,2',2"-nitrilotris[ethanolato]-N,O,O',O"]cobalt	36217-04-6
chloropentakis(methylamine)cobalt dichloride	15392-59-3
cobalt (II) chloride, hexahydrate	7791-13-1
cobalt arsenide (CoAs)	27016-73-5
cobalt arsenide (CoAs2)	12044-42-7
cobalt arsenide (CoAs3)	12256-04-1
cobalt bis(2-ethylhexanoate)	136-52-7
cobalt bis(nonylphenol,ate)	83970-30-3
cobalt bis[citrato(3-)]di-.mu.-oxodioxodimolybdate(2-)	93776-58-0
cobalt boride (Co2B)	12045-01-1
cobalt boride (Co3B)	12006-78-9
cobalt(II) carbonate / cobalt carbonate	513-79-1
cobalt carbonyl	10210-68-1
cobalt chloride (CoCl3)	10241-04-0
cobalt chromite blue green spinel	68187-50-8
cobalt cyanide (Co(CN)2)	542-84-7
cobalt cyanide (Co(CN)3)	14965-99-2
cobalt dilactate	16039-54-6
cobalt dilaurate	14960-16-8
cobalt dilinoleate	6401-84-9
cobalt dinicotinate	28029-53-0
cobalt dioctanoate	1588-79-0
cobalt dioleate	19192-71-3
cobalt dipalmitate	14582-18-4
cobalt disodium ethylenediaminetetraacetate	15137-09-4
cobalt distearate	1002-88-6
cobalt disulfide	12013-10-4
cobalt fluoride (CoF3)	10026-18-3
cobalt glycinate	17829-66-2
cobalt hexafluorosilicate(2-)	12021-67-9
cobalt hydroxide	21041-93-0
cobalt hydroxide (Co(OH)3)	1307-86-4
cobalt hydroxide oxide (Co(OH)O)	12016-80-7
cobalt iodide (CoI2)	15238-00-3
cobalt iron oxide (CoFe2O4)	12052-28-7
cobalt lithium manganese nickel oxide	182442-95-1 346417-97-8
cobalt magnesium red blue borate	68608-93-5
cobalt metasilicate	25139-08-6
cobalt molybdenum nickel oxide (CoMo2NiO8)	68016-03-5
cobalt naphthenate	61789-51-3
cobalt neodecanoate	27253-31-2
cobalt nickel oxide (CoNiO2)	58591-45-0
cobalt nitrate	10026-22-9
cobalt octoate	13586-82-8
cobalt oxide	1307-96-6
cobalt oxide (Co2O3)	1308-04-9
cobalt oxide (Co3O4)	1308-06-1
cobalt phosphide (Co2P)	12134-02-0
cobalt propionate	1560-69-6
cobalt selenide (CoSe)	1307-99-9
cobalt silicate	26686-74-8
cobalt silicide (CoSi2)	12017-12-8
cobalt succinate	3267-76-3
cobalt sulfate heptahydrate	10026-24-1
cobalt sulfide (Co2S3)	1332-71-4
cobalt tallate	61789-52-4
cobalt telluride (CoTe)	12017-13-9

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cobalt tetra(2-ethylhexyl) bis(phosphate)	24828-46-4
cobalt tin oxide (CoSnO3)	1345-19-3
cobalt titanium oxide (Co2TiO4)	12017-38-8
cobalt titanium trioxide	12017-01-5
cobalt titanium tungsten oxide ((Co,Ti,W)O2)	144437-67-2
cobalt tungsten oxide (CoWO4)	10101-58-3
cobalt zirconium oxide (CoZrO3)	69011-09-2
cobalt(2+) dibromate	14732-58-2
cobalt(2+) dinickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-44-7
cobalt(2+) ethanolate	19330-29-1
cobalt(2+) hydrogen citrate	18727-04-3
cobalt(2+) selenite	10026-23-0
cobalt(2+) tert-decanoate	84195-99-3
cobalt(2+), bis(1,2-ethanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	68958-90-7
cobalt(2+), bis(1,2-propanediamine-N,N')-, bis[bis(cyano-C)aurate(1-)]	67906-18-7
cobalt(2+), pentaamminechloro-, dichloride, (OC-6-22)-	13859-51-3
cobalt(3+), hexaammine-, (OC-6-11)-, phosphate (1:1)	55494-92-3
cobalt(3+), hexaammine-, (OC-6-11)-, salt with trifluoroacetic acid(1:3)	59561-55-6
cobalt(3+), hexaammine-, (OC-6-11)-, triacetate	14023-85-9
cobalt(3+), hexaammine-, (OC-6-11)-, trinitrate	10534-86-8
cobalt(3+), hexaammine-, trichloride, (OC-6-11)-	10534-89-1
cobalt(3+), tris(1,2-ethanediamine-N,N')-, trichloride, (OC-6-11)-	13408-73-6
cobalt(II) diacetate / cobalt(II) acetate	71-48-7
cobalt(II) fluoborate	26490-63-1
cobalt(II) fluoride	10026-17-2
cobalt(II) molybdate	13762-14-6
cobalt(II) sulfide	1317-42-6
cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenol,ato))(2-)-N,N',O,O')-	62207-76-5
cobalt, [(2-amino-2-oxoethoxy)acetato(2-)]-	68133-85-7
cobalt, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	3317-67-7
cobalt, [29H,31H-phthalocyanine-C,C-disulfonyl dichloridato(2-)-N29,N30,N31,N32]-	68189-40-2
cobalt, [29H,31H-phthalocyanine-C-sulfonyl chloridato(2-)-N29,N30,N31,N32]-	67875-38-1
cobalt, [3-hydroxy-4-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonanisididato(2-)]-, S-(hydrogen sulfate), monosodium salt	18285-21-7
cobalt, [4-hydroxy-3-[[1-(p-mercaptophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-o-benzenesulfonophenetidato(2-)]-, S-(hydrogen sulfate), monosodium salt	19052-32-5
cobalt, [N-(carboxymethyl)glycinato(2-)-N,O,ON]-	13869-30-2
cobalt, bis(2,4-pentanedionato-O,O')-, (T-4)-	14024-48-7
cobalt, bis(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	68239-56-5
cobalt, bis(D-glycero-D-ido-heptonato)-	68475-45-6
cobalt, bis(dicyclohexylphosphinodithioato-S,S')-	40621-10-1
cobalt, bis[(2,3-butanedione dioximato)(1-)-N,N']-, (SP-4-1)-	3252-99-1
cobalt, bis[.alpha.-(1-oxo-1H-isoindol-3-yl)-1H-benzimidazole-2-acetonitrilato]-, (T-4)-	60109-88-8
cobalt, bis[2-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-	69178-42-3
cobalt, bis[3-(1H-benzimidazol-2-ylamino)-1H-isoindol-1-onato]-, (T-4)-	63287-28-5
cobalt, bis[carbonato(2-)]hexahydroxypenta-	12602-23-2
cobalt, C4-10-fatty acid naphthenate complexes	84066-85-3
cobalt, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	83711-42-6
cobalt, C5-23-branched carboxylate naphthenate complexes	83711-43-7
cobalt, C5-23-branched carboxylate naphthenate octanoate complexes	83711-44-8
cobalt, compound with gadolinium (3:1)	12017-50-4
cobalt, compound with gadolinium (5:1)	12017-61-7
cobalt, compound with gadolinium (7:2)	11139-24-5
cobalt, compound with lanthanum (3:1)	61419-68-9
cobalt, compound with lanthanum (5:1)	12297-66-4
cobalt, compound with lanthanum (7:2)	12268-07-4
cobalt, compound with neodymium (3:1)	12187-43-8
cobalt, compound with neodymium (5:1)	12017-65-1
cobalt, compound with neodymium (7:2)	12516-51-7
cobalt, compound with praseodymium (5:1)	12017-67-3
cobalt, compound with praseodymium (7:2)	12516-52-8
cobalt, compound with samarium (17:2)	12052-78-7
cobalt, compound with samarium (2:1)	12017-43-5
cobalt, compound with samarium (3:1)	12187-46-1

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cobalt, compound with samarium (5:1)	12017-68-4
cobalt, compound with samarium (7:2)	12305-84-9
cobalt, compound with yttrium (3:1)	12052-62-9
cobalt, compound with yttrium (5:1)	12017-71-9
cobalt, compound with yttrium (7:2)	12052-70-9
cobalt, dibromobis(triphenylphosphine)-, (T-4)-	14126-32-0
cobalt, dibromobis[tris(3,5-dimethylphenyl)phosphine]-, (T-4)-	69198-43-2
cobalt, dibromobis[tris(3-methylphenyl)phosphine]-, (T-4)-	49651-10-7
cobalt, dichloro(1,4-diazabicyclo[2.2.2]octane-N1)-, homopolymer	68239-58-7
cobalt, elemental	7440-48-4
cobalt, tetrakis[(2,3-butanedione dioximato)(1-)-N,N']bis(pyridine)di-, (Co-Co)	25971-15-7
cobalt, tris(2,4-pentanedionato-O,O')-, (OC-6-11)-	21679-46-9
cobalt, tris(3-bromo-2,4-pentanedionato-O,O')-, (OC-6-11)-	15218-44-7
cobalt-acetate	5931-89-5
cobaltate (6-), [[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](6-)-N,N',O,O'',O''',O''''']-,pentaammonium hydrogen, (OC-6-21)-	68025-39-8
cobaltate (6-), [[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)-N,N',O,O'',O''',O''''']-,pentapotassium hydrogen, (OC-6-21)-	67924-23-6
cobaltate (6-), [[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)-N,N',O,O',O''',O''''']-,pentasodium hydrogen, (OC-6-21)-	67969-67-9
cobaltate (CoO21-), lithium	12190-79-3
cobaltate(1-), [1-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-2-naphthalenolato(2-)][methyl[8-[(5-ethylsulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2- naphthalenyl]methylcarbamato(2-)]-, sodium	103241-62-9
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3 -onato(2-)][1-[(2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compound with 1-tridecanamine (1:1)	70815-19-9
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	55668-56-9
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	73507-67-2
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	52277-73-3
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	73507-66-1
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, hydrogen	73324-02-4
cobaltate(1-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen	72845-76-2
cobaltate(1-), [2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][N-[7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, sodium	70236-41-8
cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen	30638-08-5
cobaltate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, sodium	52729-67-6
cobaltate(1-), [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)][1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	72928-77-9
cobaltate(1-), [3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	72928-76-8
cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)][N-[7-hydroxy-8-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, hydrogen	68413-61-6

Substance Group name	
Substance	**CAS №**
cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)][N-[7-hydroxy-8-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, sodium	74499-63-1
cobaltate(1-), [3-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)][4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, sodium	72403-33-9
cobaltate(1-), [3-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)][4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(1-methylethyl)benzenesulfonamidato(2-)]-, sodium	72391-10-7
cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)][4-hydr oxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide ,-dioxidato(2-)]-, ammonium	83864-24-8
cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)][4-hydr oxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfonamide ,-dioxidato(2-)]-, sodium	83817-76-9
cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)][4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(1-methylethyl)benzenesulfonamidato(2-)]-, sodium	72403-32-8
cobaltate(1-), [4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)][8-[(2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compound with 3-[(2-ethylhexyl)oxy]-1-propanamine (1:1)	73297-17-3
cobaltate(1-), [6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-(2-hydroxypropyl)-2-naphthalenesulfonamidato(2-)][1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, sodium	73195-17-2
cobaltate(1-), [C-(chlorosulfonyl)-29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-	68213-72-9
cobaltate(1-), [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']-, hydrogen, (T-4)-	53108-50-2
cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)][3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, hydrogen	68239-47-4
cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)][3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, sodium	68966-96-1
cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)][3-[4,5-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]-, sodium	59487-93-3
cobaltate(1-), bis(2,4-dihydro-4-((2-hydroxy-4-nitrophenyl)azo)-5-methyl-2-phen yl-3H-pyrazol-3-onato(2-)), sodium	67486-73-1
cobaltate(1-), bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	64611-71-8
cobaltate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	52277-69-7
cobaltate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	73297-09-3
cobaltate(1-), bis[1-[(2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, sodium	75752-30-6
cobaltate(1-), bis[1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, hydrogen	31586-68-2
cobaltate(1-), bis[1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)]-, sodium	18639-97-9
cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)]-, hydrogen, compound with [1R-(1.alpha.,4a.beta.,10a.alpha.)]-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-ph	20506-24-5
cobaltate(1-), bis[2-(3-chlorophenyl)-2,4-dihydro-4-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-5-methyl-3H-pyrazol-3-onato(2-)]-, sodium	70236-44-1
cobaltate(1-), bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, hydrogen	52256-38-9
cobaltate(1-), bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, hydrogen, compound with cyclohexanamine (1:1)	71566-27-3
cobaltate(1-), bis[2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]-, sodium	71839-88-8
cobaltate(1-), bis[2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenol,ato(2-)]-, sodium	125378-91-8
cobaltate(1-), bis[2-[(2-amino-1-naphthalenyl)azo]-5-nitrophenol,ato(2-)]-, hydrogen	71566-34-2

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Substance	**CAS №**
cobaltate(1-), bis[2-[(2-amino-1-naphthalenyl)azo]-5-nitrophenol,ato(2-)]-, sodium	68966-98-3
cobaltate(1-), bis[2-[(2-hydroxy-4-nitrophenyl)azo]-1-naphthalenolato(2-)]-, hydrogen	6421-64-3
cobaltate(1-), bis[2-[(2-hydroxy-4-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	81361-02-6
cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen	13011-62-6
cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen, compound with 1-butanamine (1:1)	72797-14-9
cobaltate(1-), bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	71566-26-2
cobaltate(1-), bis[2-[[2-hydroxy-5-[(phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, ammonium	125408-78-8
cobaltate(1-), bis[2-[[2-hydroxy-5-[(phenylamino)sulfonyl]phenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	71562-83-9
cobaltate(1-), bis[2-[[4-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-,	66104-83-4
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-,	72928-91-7
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-,	72496-88-9
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-chlorophenyl)-3-oxobutan amidato(2-)]-, sodium	34735-28-9
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-	72403-31-7
cobaltate(1-), bis[2-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]-, sodium	74082-15-8
cobaltate(1-), bis[2-chloro-5-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato(2-)]-, hydrogen, compound with cyclohexanamine (1:1)	71839-87-7
cobaltate(1-), bis[2-chloro-5-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato(2-)]-, sodium	70179-69-0
cobaltate(1-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, hydrogen	68568-52-5
cobaltate(1-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, sodium, (OC-6-22')-	34664-47-6
cobaltate(1-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-N-(1-methylethyl)benzenesulfonamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	71839-74-2
cobaltate(1-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)]-, sodium	72479-33-5
cobaltate(1-), bis[3-[(8-hydroxy-5-quinolinyl)azo]benzenesulfonato(2-)]-, sodium	72905-57-8
cobaltate(1-), bis[3-[[1-(2,5-dichlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-, sodium	75214-67-4
cobaltate(1-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-, sodium	73612-40-5
cobaltate(1-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-, sodium	71701-14-9
cobaltate(1-), bis[3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-, hydrogen	67952-74-3
cobaltate(1-), bis[3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-, sodium	71566-39-7
cobaltate(1-), bis[3-[[4,5-dihydro-3-methyl-1-(4-methylphenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-N-methylbenzenesulfonamidato(2-)]-, sodium	70281-40-2
cobaltate(1-), bis[3-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonamidato(2-)]-, sodium	72403-34-0
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)amino]-N-(3-methoxypropyl)benzenesulfonamidato(2-)-N3,O3,O4]-, sodium	71735-52-9
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-,	63971-70-0
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-,	50525-57-0

Substance Group name	
Substance	**CAS №**
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	71839-84-4
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, lithium	125252-57-5
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, sodium	58302-43-5
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(1-methylethyl)benzenesulfonamidato(2-)]-, sodium	72391-09-4
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(2-methoxyethyl)benzenesulfonamidato(2-)]-, sodium	70247-76-6
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-(3-methoxypropyl)benzenesulfonamidato(2-)]-, sodium	71735-61-0
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-)]-, ammonium	83847-06-7
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-	83804-08-4
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-	83804-07-3
cobaltate(1-), bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfon amide ,-dioxidato(2-)]-, ammonium	83864-23-7
cobaltate(1-), bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]benzenesulfon amide ,-dioxidato(2-)]-, sodium	83817-79-2
cobaltate(1-), bis[5-[(5-chloro-2-hydroxyphenyl)azo]-6-hydroxy-N-(2-hydroxyethyl)-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	70236-43-0
cobaltate(1-), bis[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-	70236-59-8
cobaltate(1-), bis[hydrogen 3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitro-1-	26921-01-7
cobaltate(1-), bis[methyl [8-[[4-(aminosulfonyl)-2-hydroxy-5-methoxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium	73507-63-8
cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[(methylamino)sulfonyl]ph enyl]azo]-3-oxobutanamidato(2-)]-, sodium	70247-73-3
cobaltate(1-), bis[N-(2-chlorophenyl)-2-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-3-oxobutanamidato(2-)]-, sodium	70247-74-4
cobaltate(1-), bis[N-[(2-chlorophenyl)-2-[[2-hydroxy-5-[(methylamino)sulfonyl]p henyl]phenyl]azo]-3-oxobutanamidato(2)]-, hydrogen	55963-70-7
cobaltate(1-), bis[N-[2-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-5-methylphenyl]acetamidato(2-)]-,	71735-59-6
cobaltate(1-), bis[N-[7-hydroxy-8-[[2-hydroxy-5-[(methylamino)sulfonyl]phenyl]azo]-1-naphthalenyl]acetamidato(2-)]-, hydrogen, compound with 2-propanamine (1:1)	71839-76-4
cobaltate(1-), bis[N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)]-, sodium	68966-95-0
cobaltate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, (OC-	14931-83-0
cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)][3-hydroxy-4-[(2-hy droxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, disodium	125378-88-3
cobaltate(2-), [1-[(5-chloro-2-hydroxyphenyl)azo]-2-naphthalenolato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, sodium hydrogen	71243-97-5
cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3 -onato(2-)][2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sul fonyl]amino]benzoato(3-)]-, disodium	82556-13-6
cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium hydrogen	73455-76-2
cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, dihydrogen	72987-06-5

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cobaltate(2-), [2,4-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, dihydrogen, compound with 2,2'-iminobis[ethanol] (1:2)	72987-07-6
cobaltate(2-), [2,4-dinitro-6-[[2-(phenylamino)-1-naphthalenyl]azo]phenol,ato(2-)][3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, sodium hydrogen	72102-52-4
cobaltate(2-), [2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-N-(2-ethylhexyl)-3-oxobutanamidato(2-)][4-[[1-[(2-hydroxy-3,5-dinitrophenyl)azo]-2-naphthalenyl]amino]benzenesulfonato(3-)]-, dipotassium	68928-31-4
cobaltate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, dihydrogen	29383-29-7
cobaltate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium	61045-13-4
cobaltate(2-), [6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamidato(2-)][6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenesulfonato(3-)]-, disodium	75314-27-1
cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, dihydrogen	12715-61-6
cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, dilithium	67906-22-3
cobaltate(2-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, disodium	75522-91-7
cobaltate(2-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2)]-, dilithium, (OC-6-22')-	67906-23-4
cobaltate(2-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, disodium, (OC-6-22')-	72208-07-2
cobaltate(2-), bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxybenzenesulfonamidato(2-)]-, lithium sodium, (OC-6-22')-	75557-21-0
cobaltate(2-), bis[3-[[1-(3-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulfonamidato(2-)]-, disodium	70529-03-2
cobaltate(2-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, disodium	71060-75-8
cobaltate(3-), [4-amino-3-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)][5-amino-6-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]-, trisodium	82457-28-1
cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, triammonium, (T-4)-	67968-65-4
cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, tripotassium, (T-4)-	63597-33-1
cobaltate(3-), [N,N-bis(phosphonomethyl)glycinato(5-)]-, trisodium,(T-4)-	67968-66-5
cobaltate(3-), bis[2-[[[3-[[1-[[(2-chlorophenyl)amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)]-, trisodium	73612-41-6
cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, trisodium	82556-12-5
cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-(phenylamino)-1-naphthalenyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium dihydrogen	72829-33-5
cobaltate(3-), bis[2-[[[4-hydroxy-3-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]phenyl]sulfonyl]amino]benzoato(3-)]-, sodium dihydrogen	73018-84-5
cobaltate(3-), bis[2-hydroxy-5-nitro-3-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]benzenesulfonato(3-)]-, sodium dihydrogen	73507-73-0
cobaltate(3-), bis[3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfona to(3-)]-	125378-89-4
cobaltate(3-), bis[3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, trihydrogen	72797-08-1
cobaltate(3-), bis[3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)]-, trihydrogen, compound with 2,2'-iminobis[ethanol] (1:3)	72797-09-2
cobaltate(3-), bis[3-hydroxy-7-nitro-4-[(1,2,3,4-tetrahydro-2,4-dioxo-3-quinolinyl)azo]-1-naphthalenesulfonato(3-)]-, trisodium	74196-11-5

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cobaltate(3-), bis[4-[[2-[(2-hydroxy-5-nitrophenyl)azo]-1,3-dioxobutyl]amino]-5-methoxy-2-methylbenzenesulfonato(3-)]-, trihydrogen	62598-42-9
cobaltate(3-), bis[4-[4-[[4-[[[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(3-)]-, trisodium	75234-42-3
cobaltate(3-), bis[4-[4-[[4-[4-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(3-)]-, trisodium	75214-72-1
cobaltate(3-), bis[5-chloro-2-hydroxy-3-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]benzenesulfonato(3-)]-, trisodium	73324-01-3
cobaltate(3-), bis[6-amino-5-[(2-hydroxy-3,5-dinitrophenyl)azo]-1-naphthalenesulfonato(3-)]-, sodium dihydrogen	73297-10-6
cobaltate(3-), bis[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenesulfonato(3-)]-, trisodium	77630-54-7
cobaltate(3-), hexakis(cyano-C)-, cobalt(2+) (2:3), (OC-6-11)-	14123-08-1
cobaltate(3-), hexakis(cyano-C)-, tripotassium, (OC-6-11)-	13963-58-1
cobaltate(3-), hexakis(cyano-C)-, trisodium, (OC-6-11)-	14039-23-7
cobaltate(3-), hexakis(cyano-C)-, zinc (2:3), (OC-6-11)-	14049-79-7
cobaltate(3-), hexakis(nitrito-N)-, tripotassium, (OC-6-11)-	13782-01-9
cobaltate(3-), hexakis(nitrito-O)-, trisodium, (OC-6-11)-	14649-73-1
cobaltate(3-), tris[6-hydroxy-5-nitroso-2-naphthalenesulfonato(2-)]-, trisodium	67815-64-9
cobaltate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, tetrapotassium, (T-4)-	63588-34-1
cobaltate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, tetrasodium, (T-4)-	68000-01-1
cobaltate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, triammonium hydrogen, (T-4)-	67968-64-3
cobaltate(4-), [29H,31H-phthalocyanine-2,9,16,23-tetrasulfonato(6-)-N29,N30,N31,N32]-, tetrahydrogen, (SP-4-1)-	14285-59-7
cobaltate(4-), bis[2-[[[3-[[1-[[(2-chlorophenyl)amino]carbonyl]-2-oxopropyl]azo]-4-hydroxyphenyl]sulfonyl]amino]benzoato(3-)]-, tetrasodium	70851-34-2
cobaltate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)-	14564-70-6
cobaltate(4-), hexakis(cyano-C)-, tetrasodium, (OC-6-11)-	14217-00-6
cobaltate(5-), bis[4-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-[[4-chloro-6-[[4-[4,5-dihydro-4-[(2-hydroxy-5-sulfophenyl)azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]phenyl]amino]-1,3,5-triazin-2-yl]amino]benzenesulfonato(4-)]-, pentasodium	83417-32-7
cobaltate(5-), bis[4-[[6-[[4-chloro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-3-hydroxy-7-nitro-1-naphthalenesulfonato(4-)]-, pentasodium	75284-36-5
cobaltate(5-), bis[4-[4-[[4-[[[3-[[4,5-dihydro-3-methyl-5-oxo-1-(4-sulfophenyl)-1H-pyrazol-4-yl]azo]-4-hydroxyphenyl]sulfonyl]amino]phenyl]azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzenesulfonato(4-)]-, pentasodium	75214-71-0
cobaltate(5-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-5-[(2,5,6-trichloro-4-pyrimidinyl)amino]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	74196-19-3
cobaltate(5-), bis[5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-h ydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	104815-53-4
cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, pentasodium	79817-88-2
cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrapotassium sodium	73038-30-9
cobaltate(5-), bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrasodium hydrogen	70776-55-5
cobaltate(5-), bis[5-[(4-chloro-6-methoxy-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-2,7-naphthalenedisulfonato(4-)]-, tetrasodium hydrogen	68132-93-4
cobaltate(5-), bis[6-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitro-3-sulfophenyl)azo]-2-naphthalenesulfonato(4-)]-,tetrapotassium sodium	74196-12-6

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cobaltate(5-), bis[6-amino-5-[[2-hydroxy-5-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-1-naphthalenesulfonato(4-)]-, potassium sodium	72269-32-0
cobaltate(5-), bis[7-hydroxy-8-[(2-hydroxy-5-nitro-3-sulfophenyl)azo]-6-[(2,5,6-trichloro-4-pyrimidinyl)amino]-2-naphthalenesulfonato(4-)]-, pentasodium	74196-13-7
cobaltate(7-), [5-[[4-chloro-6-[[5-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino] -2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2- hydroxy-5-sulfophenyl)azo]-2,7-naphthalenedisulfonato(6-)][4-[(5 -chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-[	83417-33-8
cobaltate(7-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]-2-naphthalenesulfonato(5-)]-, disodium pentahydrogen	69898-68-6
cobaltate(7-), bis[4-hydroxy-5-[(2-hydroxy-1-naphthalenyl)azo]-3-[(2-hydroxy-3-nitro-5-sulfophenyl)azo]-2,7-naphthalenedisulfonato(5-)]-, heptasodium	74196-18-2
cobaltate(8-), bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]-2-naphthalenesulfonato(5-)]-, tetraammonium tetrahydrogen	70833-34-0
cobaltate(9-), bis[5-[[4-chloro-6-[[5-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-hydroxy-5-sulfophenyl)azo]-2,7-naphthalenedisulfonato(6-)]-, nonasodium	83417-34-9
cobalt(II) dinitrate / cobalt-dinitrate	10141-05-6
cobaltocene	1277-43-6
cobaltocenium hexafluorophosphate(1-)	12427-42-8
cobaltocenium, (T-4)-tetrachlorocobaltate(2-) (2:1)	11077-19-3
cobaltous bromide	7789-43-7
cobalt dichloride	7646-79-9
cobaltous formate	544-18-3
cobaltous sulfamate	14017-41-5
cyclohexanebutanoic acid, cobalt(2+) salt	38582-17-1
di(acetato-O)(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	68239-55-4
di-.mu.-carbonyltetracarbonylbis(triphenylphosphine)dicobalt	24212-54-2
diammonium pentahydrogen bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]naphthalene-2-sulphonato(5-)]cobaltate(7-)	83803-62-7
diboron cobalt(2+) tetraoxide	38233-75-9
dicarbonyl(.eta.5-2,4-cyclopentadien-1-yl)cobalt	12078-25-0
dichloro(1,4-diazabicyclo[2.2.2]octane-N1)cobalt	68239-57-6
dichlorobis(3-pyridylcarboxamide-N1)cobalt	6856-47-9
dicobalt edetate	36499-65-7
dicobalt orthosilicate	13455-33-9
dicobalt tris(sulphate)	13478-09-6
dicobalt(2+) nickel(2+) bis[2-hydroxypropane-1,2,3-tricarboxylate]	94232-84-5
dihydrogen bis[L-glutamato(2-)-N,O1]cobaltate(2-)	19224-80-7
diphosphoric acid, cobalt(2+) salt (1:2)	14640-56-3
dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cobaltate(2-)	14025-10-6
dipotassium disulphatocobaltate	13596-22-0
disodium [5-[[1-(anilinocarbonyl)-2-oxopropyl]azo]-4-hydroxy-3-nitrobenzenesulphonato(3-)][2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(2-)	76762-27-1
Electrolytes, cobalt-manufacturing A solution used in the electrolytic refining of cobalt. The composition varies according to the particular process involved. The electrolyte generally contains high levels of cob alt ions and lower levels of impurity me	121053-28-9
ethanedioic acid, cobalt(2+) salt (1:1)	814-89-1
fatty acids, soya, polymers with acetic acid, fumaric acid, linseedoil, maleic anhydride, pentaerythritol, rosin, tall oil, tall-oil fatty acids and tripentaerythritol, cobalt salts	70131-61-2
formic acid, cobalt salt	15731-88-1
heptahydrogen bis[4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]-7-[(3-phosphonophenyl)amino]naphthalene-2-sulphonato(5-)]cobaltate(7-)	65335-15-1
hexa(cyano-c)cobaltate(4-)	23209-26-9
hexanoic acid, 3,5,5-trimethyl-, cobalt(2+) salt	49676-83-7

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hydrazinium(1+), (OC-6-21)-[[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cobaltate(2-) (2:1)	68201-98-9
hydrofluoric acid, reaction products with alumina and cobalt chloride (CoCl2)	68442-96-6
hydrogen [2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)][1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)]cobaltate(1-)	52277-72-2
hydrogen [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)][3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	83249-70-1
hydrogen bis[1-[(2-hydroxy-4-nitrophenyl)azo]naphthalen-2-olato(2-)]cobaltate(1-)	32517-38-7
hydrogen bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)	84030-59-1
hydrogen bis[2,4-dihydro-4-[[2-hydroxy-5-mesylphenyl]azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]cobaltate(1-)	29998-71-8
hydrogen bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(1-), compound with 2,2'-dodecyliminobis[ethanol] (1:1)	84030-58-0
hydrogen bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-	83249-73-4
hydrogen bis[5,8-dichloro-2-[(2-hydroxy-4-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	82338-72-5
hydrogen bis[5,8-dichloro-2-[(2-hydroxy-5-nitrophenyl)azo]-1-naphtholato(2-)]cobaltate(1-), compound with cyclohexylamine (1:1)	82338-74-7
hydrogen bis[N-[7-hydroxy-8-[[2-hydroxy-5-mesylphenyl]azo]-1-naphthyl]cobaltate(1-)	29616-23-7
isononanoic acid, cobalt salt	57364-75-7
leach residues, zinc ore-calcine, cobalt repulp	69012-71-1
leach residues, zinc ore-calcine, zinc cobalt	69012-72-2
lithium [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)][3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	83270-30-8
lithium bis[2-[(2-hydroxy-5-nitrophenyl)azo]-3-oxo-N-phenylbutyramidato(2-)]cobaltate(1-)	83733-13-5
lithium bis[2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutyramidato(2-	83249-68-7
lithium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-	83249-72-3
molybdate (Mo7O246-), cobalt(3+) (2:1)	68647-47-2
molybdate(3-), tetracosa-.mu.-oxododecaoxo[.mu.12-[phosphato(3-)-O:O:O:O':O':O':O":O":O":O'":O'"]]dodeca-, cobalt(2+) (2:3)	12263-08-0
N,N'-ethylenebis(glycinato-O,N)cobalt	29977-10-4
neodecanoic acid, cobalt(2+) salt	52270-44-7
nitric acid, cobalt salt	14216-74-1
nitric acid, cobalt(3+) salt	15520-84-0
octadecanoic acid, cobalt salt	13586-84-0
octanoic acid, cobalt salt	6700-85-2
pentapotassium bis[5-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]-4-hydroxy-3-[(2-hydroxy-5-nitrophenyl)azo]naphthalene-2,7-disulphonato(4-)]cobaltate(5-)	79817-89-3
perchloric acid, cobalt(2+) salt	13455-31-7
phosphonic acid, (1-hydroxyethylidene)bis-, ammonium cobalt(2+) salt (1:2:1)	69178-34-3
phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) potassium salt (1:1:2)	69140-59-6
phosphonic acid, (1-hydroxyethylidene)bis-, cobalt(2+) sodium salt (1:1:2)	69140-60-9
phosphoric acid, ammonium cobalt(2+) salt (1:1:1)	14590-13-7
phosphoric acid, cobalt(2+) salt (1:1)	13596-21-9
phosphoric acid, cobalt(2+) salt (2:1)	18718-10-0
phosphoric acid, cobalt(2+) salt (2:3), hydrate	10101-56-1
potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O"]cobaltate(1-)	63640-17-5
propanoic acid, 2,2-dimethyl-, cobalt(2+) salt	15520-31-7
selenic acid, cobalt(2+) salt (1:1)	14590-19-3
sodium [2-[[5-(aminosulphonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutylamidato(2-)][3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	83249-69-8
sodium bis[1-[[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-2-naphtholato(2-)]cobaltate(1-)	55870-94-5
sodium bis[3-[[1-(benzothiazol-2-yl)-2-oxopropyl]azo]-4-hydroxybenzenesulphonamidato(2-)]cobaltate(1-)	83249-71-2

Substance Group name	
Substance	**CAS №**
sodium bis[3-[[4,5-dihydro-3-methyl-1-(4-nitrophenyl)-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxybenzenesulphonamidato(2)]cobaltate(1-)	83803-65-0
sodium bis[4-[(4-chloro-1-hydroxy-2-naphthyl)azo]-N,N'-diethyl-5-hydroxybenzene-1,3-disulphonamidato(2-)]cobaltate(1-)	24215-94-9
sodium bis[4-hydroxy-3-[(5-hydroxynaphth[2,1-d]-1,3-oxathiol-4-yl)azo]-N-methylbenzenesulphonamide S,S-dioxidato(2-)]cobaltate(1-)	83817-78-1
sodium bis[methyl [8-[[5-(ethylsulphonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthyl]methylcarbamato(2-)]cobaltate(1-)	55870-93-4
spinels, cobalt nickel zinc grey	95046-47-2
sulfuric acid, ammonium cobalt(2+) salt	13586-38-4
sulfuric acid, ammonium cobalt(2+) salt (2:2:1)	13596-46-8
sulfuric acid, cobalt salt, hydrate	65492-00-4
tetrakis[(decanoato-O)cobalt]tetra-.mu.-oxotitanium	84145-31-3
tetrakis[(octanoato-O)cobalt]tetra-.mu.-oxotitanium	84176-59-0
thiocyanic acid, cobalt(2+) salt	3017-60-5
tri-.mu.-carbonylnonacarbonyltetracobalt	17786-31-1
tri-.mu.-carbonyltetracarbonyl(pentacarbonyldicobalt)dirhodium	50696-78-1
tricarbonylnitrosylcobalt	14096-82-3
tricobalt bis(orthophosphate)	13455-36-2
tricopper bis[hexa(cyano-c)cobaltate(3-)]	14518-26-4
trihydrogen bis[5-[[[4-hydroxy-3-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]phenyl]sulphonyl]amino]naphthalene-2-sulphonato(3-)]cobaltate(3-)	72932-56-0
triphenyl(p,p,p-triphenylphosphine imidato-N)phosphorus(1+) tetracarbonylcobaltate(1-)	53433-12-8
tris(heptane-3,5-dionato-O,O')cobalt	15188-91-7
trisodium [N,N-bis[2-[bis(carboxymethyl)amino]ethyl]glycinato(5-)]cobaltate(3-)	6255-07-8
trisodium bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-2-hydroxy-5-nitrobenzenesulphonato(3-)]cobaltate(3-)	84204-70-6
trisodium bis[3-[(5-amino-3-methyl-1-phenyl-1H-pyrazol-4-yl)azo]-5-chloro-4-hydroxy-N-[2-(sulphooxy)ethyl]benzenesulphonamidato(3-)]cobaltate(3-)	83804-04-0
trisodium bis[4-[4,5-dihydro-4-[(2-hydroxy-5-nitrophenyl)azo]-3-methyl-5-oxo-1H-pyrazol-1-yl]benzene-1-sulphonato(3-)]cobaltate(3-)	79135-28-7
trisodium bis[4-hydroxy-3-nitro-5-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]benzenesulphonato(3-)]cobaltate(3-)	83733-22-6
trisodium bis[5-chloro-2-hydroxy-3-[(2-hydroxy-1-naphthyl)azo]benzenesulphonato(3-)]cobaltate(3-)	6771-86-4
trisodium bis[6-amino-5-[(2-hydroxy-3,5-dinitrophenyl)azo]naphthalene-1-sulphonato(3-	84057-73-8
trisodium bis[amino[(2-hydroxy-3,5-dinitrophenyl)azo]naphthalenesulphonato(3-)]cobaltate(3-)	74220-71-6
trisodium hexanitritocobaltate	13600-98-1
xanthylium, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-, bis[3-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-N-[3-(1-methylethoxy)propyl]benzenesulfonamidato(2-)]cobaltate(1-)	71566-55-7
C.I. acid red 182	61901-42-6
1-propanamin, N,N-dipropyl-, cobalt complex	75101-45-0
cobalt borate neodecanoate complexes,	68457-13-6
C.I. pigment blue 28	1345-16-0
cobalt aluminate blue spinel	68186-86-7
C.I. acid blue	51053-44-2
C.I. pigment blue 36	68187-11-1
C.I. pigment green 26	68187-49-5
C.I. pigment violet 47	68610-13-9
C.I. pigment green 50	68186-85-6
C.I. pigment blue 72	68186-87-8
C.I. pigment green 19	8011-87-8
C.I. pigment black 27	68186-97-0
cobalt(II) isoalkanoates(C6-C19)	68409-81-4
(C9-C13) neoalkanoic acids, cobalt(2+) salts	68955-83-9

Substance Group name	
Substance	**CAS №**
trisodium bis(2-hydroxy-5-nitro-3-((2-oxo-1-((phenylamino)carbonyl)propyl) azo)benzenesulphonato(3-))cobaltate(3-)	85959-73-5
zinc chrome cobalt aluminate blue spinel	74665-01-3
1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene	
1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2
pitch, coal tar, high temperature	
coal tar pitch, high temperature	65996-93-2
mineral fibres (natural or synthetic) except continuous filament fibres	
aluminiosilicate, refractory ceramic fibres	AL57
zirconia aluminosilicate, refractory ceramic fiber	AL58
ceramic fibers	142844-00-6
calcium-magnesium-zirconium-silicate mixture	329211-92-9
aluminium chloride, basic reaction products with silica	675106-31-7
cristobalite	14464-46-1
2,4-dinitrotoluene	
2,4-dinitrotoluene	121-14-2
biocidal coatings / biocidal additives	
1,2-benzisothiazoline-3-one	2634-33-5
diuron	330-54-1
dimethylfumarate	624-49-7
isothiazolinones, e.g.	AL60-1
5-chloro-2-methyl-4-thiazoline-3-ketone	26172-55-4
5-chloro-2-methyl-thiazol-3-one; 2-methylthiazol-3-one	AL60-2
3(2h)-isothiazolone, 5-chloro-2-methyl-, mixture. with 2-methyl-3(2h)-isothiazolone	55965-84-9
2-methyl-4-thiazoline-3-ketone	2682-20-4
acrylamide	
acrylamide	79-06-1
boric acid	
boric acid	10043-35-3 11113-50-1
tetraboron disodium heptaoxide	
tetraboron disodium heptaoxide	1330-43-4 12179-04-3 1303-96-4
tetraboron disodium heptaoxide hydrate	
tetraboron disodium heptaoxide hydrate	12267-73-1
volatile organic compounds	
propan-2-ol	67-63-0
toluene	108-88-3
acetone	67-64-1
butyl acetate	123-86-4
methanol	67-56-1
xyrene	1330-20-7
2-butanone	78-93-3
dichloromethane	75-09-2
styrene	100-42-5
ethanol	64-17-5
ethylbenzene	100-41-4
tetrahydrofuran	109-99-9
2-propanol, 1-methoxy-	107-98-2
1-butanol	71-36-3
chloroform / trichloromethane (chloroform)	67-66-3
methyl isobutyl ketone	108-10-1
heptane	142-82-5
ethyl acetate	141-78-6
trichloroethylene	79-01-6
cyclohexanone	108-94-1
hydrazine	
hydrazine	7803-57-8 302-01-2

Substance Group name	
Substance	**CAS №**
1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	
1-methylpyrrolidin-2-one (2-Pyrrolidinone, 1-methyl)	872-50-4
formaldehyde, oligomeric reaction products with aniline	
formaldehyde, oligomeric reaction products with aniline	25214-70-4
4-(1,1,3,3-tetramethylbutyl)phenol	
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
N,N-dimethylacetamide	
N,N-dimethylacetamide	127-19-5
phenolphthalein	
phenolphthalein	77-09-8
hexachlorobenzene	
hexachlorobenzene	118-74-1
chlorinated or brominated dibenzo-p-dioxins or dibenzofurans	
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9
1,2,3,4,7,8,9-hexachlorodibenzofuran	55673-89-7
1,2,3,4,7,8-hexachloro dibenzofuran	70648-26-9
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6
1,2,3,6,7,8-hexachloro dibenzofuran	57117-44-9
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7
1,2,3,7,8,9-hexachloro dibenzofuran	72918-21-9
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3
1,2,3,7,8-pentachloro dibenzofuran	57117-41-6
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4
2,3,4,6,7,8-hexachloro dibenzofurans	60851-34-5
2,3,4,7,8-pentachloro dibenzofurans	57117-31-4
2,3,7,8-tetrachloro dibenzofurans	51207-31-9
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6
2,7-dichlorodibenzo-p-dioxin	33857-26-0
hexachlorodibenzodioxin	34465-46-8
octachlorodibenzofuran	39001-02-0
octachlorodibenzo-p-dioxin	3268-87-9
dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	
dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	2385-85-5
4-nitrobiphenyl and its salts	
4-nitrobiphenyl (4-nitrodiphenyl)	92-93-3
N-nitrosamines	
N-nitroso diethanol amine	1116-54-7
N-nitroso diethyl amine	55-18-5
N-nitroso dimethyl amine	62-75-9
N-nitroso ethyl phenyl amine	612-64-6
N-nitroso methyl ethyl amine	10595-95-6
N-nitroso methyl phenyl amine	614-00-6
N-nitroso morpholine	59-89-2
N-nitroso pyrrolidine	930-55-2
N-nitrosodi-i-propyl amine	601-77-4
N-nitrosodi-n-butylamine	924-16-3
N-nitrosodi-n-propyl amine	621-64-7
N-nitrosopiperidine	100-75-4
phenol,, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	
phenol,, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	3846-71-7
vinyl chloride monomer	
vinyl chloride monomer	75-01-4
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium	
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9
chlorinated flame retardants	
monomethyltetrachlorodiphenylmethane	76253-60-6
tetrakis(2-chloroethyl)dichloroisopentyldiphate	38051-10-4
tris(1-chloro-2-propyl)phosphate	13674-84-5
tris(2,3-dichloro-1-propyl)phosphate	66108-37-0
other chlorinated flame retardants	AL47
specified organic pigment	
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide (pigment red 2)	6041-94-7

Substance Group name	
Substance	**CAS №**
quino[2,3-b]acridine-7,14-dione, 5,12-dihydro-2,9-dimethyl- (pigment red 122)	980-26-7
2-[(2,5-Dichlorophenyl)diazenyl]-N-(6-ethoxy-1,3-benzothiazol-2-yl)-3-oxobutanamide (C. I. pigment yellow 165)	38489-25-7
N,N'-Bis(2,4-dimethylphenyl)-3,3'-dioxo-2,2'-[(3,3'-dichlorobiphenyl-4,4'-diyl)bis(diazenediyl)]dibutanamide	5102-83-0
butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxo-	5567-15-7
acetamide	
acetamide	60-35-5
acetamide, N-methyl-	
acetamide, N-methyl-	79-16-3
acetonitrile	
acetonitrile	75-05-8
acrylonitrile	
acrylonitrile	107-13-1
ammonium perchlorate	
ammonium perchlorate	7790-98-9
aniline and its salts	
aniline	62-53-3
aniline chloride	142-04-1
anilinetrifluoroboron	660-53-7
benzenamine sulfate (2:1)	542-16-5
salts from 2,2'-dichloro-4,4'-methylendianilin	AL66
3,5-dichloro-4-(1,1,2,2-tetrafluroethoxy)aniline	104147-32-2
salts from 4,4'-carbonimidoylbis[N,N-dimethylanilin]	AL66
aniline and its salts	AL66
aromatic amines	
n-phenyl-2-naphthylamine	135-88-6
diethylmethylbenzenediamine	68479-98-1
bis(methylthio)toluenediamine	106264-79-3
diphenylamine	122-39-4
1,3-benzenediamine, 4,6-diethyl-2-methyl-	2095-01-4
1,3-benzenediamine, 2,4-diethyl-6-methyl-	2095-02-5
o-toluidine, 4-chloro-, hydrochloride	3165-93-3
anisole, 2,4-diamino-, sulphate	39156-41-7
benzenamine, 2-methyl-5-nitro-, monohydrochloride	51085-52-0
3,5-dichlor-4-(1,1,2,2-tetrafluorethoxy)anilin	104147-32-2
benzenamine, 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-, monohydrochloride	569-61-9
barium compounds (organic or water soluble)	
barium	7440-39-3
barium 2-(2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate (3:2)	15782-06-6
barium 4- (5-chloro-4-methyl-2-sulphonatophenyl)azo -3-hydroxy-2-naphthoate	7585-41-3
barium 4-(1,1-dimethylethyl)benzoate	10196-68-6
barium bis 5-chloro-4-ethyl-2- (2-hydroxy-1-naphthyl)azo benzenesulp...	67801-01-8
barium bis(2-ethylhexanoate)	2457-01-4
barium bis(dinonylnaphthalenesulphonate)	25619-56-1
barium bis(nonylphenol,ate)	28987-17-9
barium distearate	6865-35-6
barium oxide, obtained by calcining witherite	1304-28-5
barium(2+) hydrogen 2- (2-hydroxy-3,6-disulphonato-1-naphthyl)azo benzoate	1325-16-2
barium-chlorate	13477-00-4
barium-chloride	10361-37-2
barium-cyanide	542-62-1
barium-dilaurate	4696-57-5
barium-dioleate	591-65-1
barium-fluoride	7787-32-8
barium-hydroxide	17194-00-2
barium-hydroxide-octahydrate	12230-71-6
barium-neodecanoate	55172-98-0
barium-nitrate	10022-31-8
barium perchlorate	13465-95-7
barium-permanganate	7787-36-2
barium-peroxide	1304-29-6

Substance Group name	
Substance	**CAS №**
barium-sebacate	19856-32-7
naphthenic acid, barium salts	61789-67-1
benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene	
benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene	68921-45-9
1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	
1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	68953-84-4
2-benzothiazolesulphenamide, N, N-dicyclohexyl-	
2-benzothiazolesulphenamide, N, N-dicyclohexyl-	4979-32-2
butadiene, 1,3 -	
butadiene, 1,3 -	106-99-0
colophony (rosin)	
rosin	8050-09-7
colophony resin	148499-15-4
resin acids and rosin acids zinc salts	91081-53-7
copper	
copper (metallic)	7440-50-8
cyclohexane	
cyclohexane	110-82-7
2-cyclohexen-1-one, 3,5,5-trimethyl-	
2-cyclohexen-1-one, 3,5,5-trimethyl-	78-59-1
cyclopentasiloxane, decamethyl-	
cyclopentasiloxane, decamethyl-	541-02-6
cyclotetrasiloxane, heptamethylphenyl-	
cyclotetrasiloxane, heptamethylphenyl-	10448-09-6
cyclotetrasiloxane, octamethyl-	
cyclotetrasiloxane, octamethyl-	556-67-2
decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	
decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	41556-26-7
dimethylformamide (N,N-dimethylformamide)	
dimethylformamide (N,N-dimethylformamide)	68-12-2
epichlorohydrin (1-chloro-2,3-epoxypropane)	
epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8
1-ethenylpyrrolidin-2-one (2-Pyrrolidione, 1-ethenyl-)	
1-ethenylpyrrolidin-2-one (2-Pyrrolidione, 1-ethenyl-)	88-12-0
fatty acids, C6-19-branched, zinc salts	
fatty acids, C6-19-branched, zinc salts	68551-44-0
fluorotelomers (Some substances may not have CAS#s)	
8-2 telomer alcohol:	678-39-7
8-2 telomer olefin:	21652-58-4
2-(perflurooctyl)ethyl iodide, 8-2 telomer iodide:	2043-53-0
C8 iodide:	507-63-1
C10-2 fluorotelomer alcohol:	865-86-1
C10-2 telomer B iodide:	2043-54-1
2-furancarboxaldehyde	
2-Furancarboxaldehyde	98-01-1
DOA (hexanedioic acid, bis(2-ethylhexyl) ester)	
hexanedioic acid, bis(2-ethylhexyl) ester	103-23-1

Substance Group name	
Substance	**CAS №**
hexanoic acid, 2-ethyl-	
hexanoic acid, 2-ethyl-	149-57-5
methylacrylamidomethoxy-acetate	
methylacrylamidomethoxy-acetate	77402-03-0
2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	
2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	2425-85-6
nitrites	
ammonium nitrite	13446-48-5
amyl nitrite	110-46-3
barium nitrite hydrate	115216-77-8
butyl nitrite	544-16-1
calcium nitrite	13780-06-8
calcium nitrite hydrated	10031-34-2
ethyl nitrite	109-95-5
isobutyl nitrite	542-56-3
magnesium nitrite	15070-34-5
nickel nitrite	17861-62-0
potassium nitrite	7758-09-0
silver nitrite	7783-99-5
sodium nitrite	7632-00-0
tert-butyl nitrite	540-80-7
dicyclohexylammonium nitrite	3129-91-7
diethyldihexadecylammonium nitrite (6CI, 7CI)	105841-28-9
diisopropylammonium nitrite	34915-40-7
morpholin, nitrite (9CI)	62076-93-1
pentyl nitrite	463-04-7
butan-2-yl nitrite	924-43-6
nitrocellulose	
nitrocellulose	9004-70-0
nonylphenol	
nonylphenol	25154-52-3
nonylphenol, ethoxylates	
14-(Nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	26264-02-8
3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(nonylphenoxy)-	27177-08-8
3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol, 26-(nonylphenoxy)-	26571-11-9
3,6,9,12,15,18,21-heptaoxatricosan-1-ol, 23-(nonylphenoxy)-	27177-05-5
Decaethylene glycol, isononylphenyl ether	65455-72-3
ethanol, 2-[2-(nonylphenoxy)ethoxy]-	27176-93-8
ethanol, 2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-	7311-27-5
ethylene oxide-nonylphenol, polymer	9016-45-9
nonylphenol, polyethylene glycol ether	20636-48-0
nonylphenol, polyethylene glycol ether	27177-01-1
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy	27942-26-3
Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-(nonylphenoxy)-	50974-47-5
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	51811-79-1
Nonylphenylpolyoxyethylene sulfosuccinate	54612-36-1
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched, phosphates	68412-53-3
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(nonylphenoxy)-, branched, ammonium salt	68649-55-8
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-(sulfooxy)-, sodium salt	9014-90-8
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(nonylphenoxy)-, ammonium salt	9051-57-4
poly (oxy-1,2-ethanediyl), alpha –(4-nonylphenyl)-omega-hydroxy -	26027-38-3
poly (oxy-1,2-ethanediyl), alpha –(nonylphenyl)-omega-hydroxy-, branched	68412-54-4
poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0
poly(oxy-1,2-ethanediyl), .alpha.-(2-nonylphenyl)-.omega.-hydroxy-	51938-25-1
poly(oxy-1,2-ethanediyl), .alpha.-(isononylphenyl)-.omega.-hydroxy-	37205-87-1
7-Oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	
7-Oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	64338-16-5
perchlorates	
ammonium perchlorate	7790-98-9
barium perchlorate	13465-95-7
lead perchlorate	13637-76-8
lithium Perchlorate	7791-03-9
magnesium perchlorate	10034-81-8
perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	99749-31-2

Substance Group name	
Substance	**CAS №**
perchloric acid, cobalt (2+) salt	13455-31-7
perchloric acid, mercury(2+) salt	7616-83-3
perchloric acid, nickel(2+) salt, hexahydrate	13520-61-1
nickel perchlorate	13637-71-3
potassium perchlorate	7778-74-7
sodium perchlorate	7601-89-0
thallium(3+) perchlorate	15596-83-5
PFOA and its salts, perfluorooctanoic acids $C_8F_{15}O_2X$ (X = H, NH_4, and Metal salts)	
PFOA - perfluorooctanoic acid	335-67-1
ammonium salt of PFOA	3825-26-1
sodium salt of PFOA	335-95-5
potassium salt of PFOA	2395-00-8
silver salt of PFOA	335-93-3
phenol	
phenol	108-95-2
phenol,, 2,4,6-tris(1,1-dimethylethyl)-	
phenol,, 2,4,6-tris(1,1-dimethylethyl)-	732-26-3
phenol,, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	
phenol,, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	3864-99-1
phenylendiamines and its salts	
2,6-dichloro-p-phenylenediamine	609-20-1
2-ethoxy-N4,N4-diethyl-p-phenylenediamine	2359-46-8
2-methoxy-5-methyl-p-phenylenediamine	5307-00-6
2-nitro-p-phenylenediamine	5307-14-2
4-chloro-o-phenylenediamine	95-83-0
dimethyl-p-phenylenediamine	99-98-9
m-phenylenediamine	108-45-2
m-phenylenediamine dihydrochloride	541-69-5
N,N'-diphenyl-p-phenylenediamine	74-31-7
o-phenylenediamine	95-54-5
o-phenylenediamine dihydrochloride	615-28-1
phenylenediamines	25265-76-3
p-phenylenediamine	106-50-3
p-phenylenediamine dihydrochloride	624-18-0
p-phenylenediamine hydrochloride	55972-71-9

Substance Group name	
Substance	**CAS №**
phosphonium, triphenyl(phenylmethyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol,] (1:1)	
phosphonium, triphenyl(phenylmethyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol,] (1:1)	75768-65-9
polyamine curing agents	
bis-hexamethylenetriamine	143-23-7
triethyleneglycoldiamine	929-59-9
poly(propyleneglycol)triamine	64852-22-8
poly(propyleneglycol)diamine	9046-10-0
pentaethylenehexamine	4067-16-7
hexamethylenetetramine	100-97-0
silica, crystalline	
silica, crystalline	14808-60-7
siloxanes and silicones	
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, reaction products with ammonia, octamethylcyclotetrasiloxane and silica	68937-51-9
siloxanes and silicones, di-Me, hydrogen-terminated	70900-21-9
siloxanes and Silicones, Me 3,3,3-trifluoropropyl, Me vinyl,hydroxy-terminated	68952-02-3
sodium azide	
sodium azide	26628-22-8
vinyl benzene	
styrene (vinyl benzene)	100-42-5
styrene oxide (epoxy styrene)	
styrene oxide (epoxy styrene)	96-09-3
thallium and its compounds	
(pentane-2,4-dionato-O,O')thallium	14219-90-0
thallium (III) acetate sesquihydrate (C2H4O2.1/3Tl)	2570-63-0
thallium(III) trifluoroacetate (C2HF3O2.1/3Tl)	23586-53-0
antimony, compound with thallium (1:1)	29095-38-3
bismuth, compound with thallium (1:1)	12048-36-1
dithallium telluride (TeTl2)	12040-13-0
thallium (I) ethanolate	20398-06-5
thallium formate	992-98-3
niobium thallium trioxide	12396-77-9
thallium trinitrate (HNO3.1/3Tl)	13746-98-0
silver thallium dinitrate	25822-21-3
thallic oxide	1314-32-5
thallium	7440-28-0
thallium(III) nitrate trihydrate	13453-38-8
thallium acetate	15843-14-8
thallium arsenide (TlAs)	12006-09-6
thallium bromide	7789-40-4
thallium bromide (TlBr3)	13701-90-1
thallium chlorate	13453-30-0
thallium chloride (TlCl3)	13453-32-2
thallium fluoride (TlF3)	7783-57-5
thallium hydrogen carbonate	29809-42-5
thallium hydroxide (Tl(OH))	12026-06-1
thallium iodate	14767-09-0
thallium iodide (TlI2)	57232-83-4
thallium nitrate (V.A.N.)	16901-76-1
thallium oxide (Tl2O)	1314-12-1
thallium phosphate	51833-34-2
thallium selenide (Tl2Se)	15572-25-5
thallium sulfate	10031-59-1
thallium sulfide (Tl2S)	1314-97-2
thallium sulfide (Tl2S3)	12039-17-7
thallium telluride (Tl2Te3)	12040-16-3
thallium telluride (TlTe)	12040-12-9
thallium thiocyanate	3535-84-0
thallium triarsenide	84057-85-2
thallium triiodide	13453-37-7
thallium(1+) propan-2-olate	39262-04-9
thallium(3+) perchlorate	15596-83-5

Substance Group name	
Substance	**CAS №**
thallium(3+) triformate	71929-23-2
thallium(I) acetate	563-68-8
thallium(I) fluoride	7789-27-7
thallium(I) iodide	7790-30-9
thallium(I) nitrate	10102-45-1
thallium(I) selenide	12039-52-0
thallium(III) sulfate	16222-66-5
thallium, 2,4-cyclopentadien-1-yl-	34822-90-7
thallous malonate	2757-18-8
thallous sulfate	7446-18-6
carbonic acid, dithallium(1+) salt (U215)	6533-73-9
thallous chloride (U216)	7791-12-0
thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-	
thioperoxydicarbonic diamide ([(H2N)C(S)]2S2), tetramethyl-	137-26-8
vanadium(V) oxide	
vanadium(V) oxide	1314-62-1

Appendix 6: Analytical Method

1. Analysis of cadmium in plastics

Pretreatment method	Plastic is decomposed and liquefied using either one of the following methods in (1) to (3). (1) Wet decomposition using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (for example, EN1122-2001 “Plastic- Determination of cadmium – Wet decomposition method), (2) Pressure decomposition in sealed container using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (microwave decomposition method, (3) After ashing under presence of sulfuric acid, acid is dissolved. If residues remain when methods (1) to (3) are used, they shall be liquefied by using any method.
Measuring method	When induced plasma emission spectral analyzer (ICP-AES、ICP-OES) or induced plasma mass analyzer (ICP-MS) or atomic absorption spectrophotometer (AAS) is used, lower limit of quantification in either case. Cadmium of less than 5 ppm must be guaranteed.
Allowable concentration	Cadmium : less than 5 ppm

2. Analysis of lead in plastics

Pretreatment method	Plastic is decomposed and liquefied using either one of the following methods in (1) to (3). (It is preferable that analysis is performed without using sulfuric acid whenever possible.) (1) Wet decomposition using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (for example, “Plastic- Determination of cadmium – Wet decomposition method), (2) Pressure decomposition in sealed container using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (microwave decomposition method, (3) After ashing under presence of sulfuric acid, acid is dissolved. If residues remain when methods (1) to (3) are used, they shall be liquefied by using any method.
Measuring method	When induced plasma emission spectral analyzer (ICP-AES、ICP-OES) or induced plasma mass analyzer (ICP-MS) or atomic absorption spectrophotometer (AAS) is used, lower limit of quantification in either case. Lead of less than 30 ppm must be guaranteed.
Allowable concentration	Lead: less than 100 ppm

3. Analysis of packaging materials (cadmium, lead, hexavalent chromium and mercury)

Pretreatment method (other than mercury)	Sample is decomposed and liquefied using either one of the following methods in (1) to (3). (1) Wet decomposition using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (for example, EN1122-2001 “Plastic- Determination of cadmium – Wet decomposition method), (2) Pressure decomposition in sealed container using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (microwave decomposition method, (3) After ashing under presence of sulfuric acid, acid is dissolved. If residues remain when methods (1) to (3) are used, they shall be liquefied by using any method.
Measuring method (other than mercury)	When induced plasma emission spectral analyzer (ICP-AES、ICP-OES) or induced plasma mass analyzer (ICP-MS) or atomic absorption spectrophotometer (AAS) is used, lower limit of quantification in either case. Cadmium of less than 5 ppm, chromium of less than 2 ppm, and lead of less than 30 ppm must be guaranteed.
Pretreatment method (mercury)	Sample is decomposed and liquefied using either one of the following methods in (1) or (2). (1) Wet decomposition using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid, or (2) Pressure decomposition in sealed container using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (microwave decomposition method. If residues remain when method (1) or (2) is used, they shall be liquefied by using any method.

Measuring method (mercury)	When exclusive mercury analyzer (atomic absorption for producing atomic vapor by reduction (reduction vaporization AAS), and atomic absorption for producing atomic vapor by heating (heating vaporization AAS), however, in case of atomic absorption for producing atomic vapor by heating, pretreatment of the above liquefaction is unnecessary), induced plasma emission spectral analyzer (ICP-AES、ICP-OES) or induced plasma mass analyzer (ICP-MS) or atomic absorption spectrophotometer (AAS) is used, lower limit of quantification in either case. Confirmation is made if total of cadmium, lead, hexavalent chromium and mercury is less than 5 ppm.
Allowable concentration	If total of four elements exceeds 100 ppm, confirmation is made in reference to component tables or any other data whether the product contains hexavalent chromium.Confirmation is made if total of cadmium, lead, hexavalent chromium and mercury is 100 ppm or less.
Remarks	Chromium shall be analyzed as total chromium amount.

Appendix 7-1 Collective Registration Tool (For Electric)

Input Sheet Operating

Creation Date		
Company Code		
Supplier	Company Name	
	Sector Name	
	Person in Charge	
	TEL	
	E-Mail	

For electric

Basic Product Information													Structure Parts Information			Chemical Substance Inclusion Data					Customer Information			
Division/ Factory Name (Mandatory)	Sector Name	Person in Charge	TEL	E-mail	Product No. (Mandatory)	Product Name (Mandatory)	Series Name	Category2 (Mandatory)	Product Mass (Mandatory)	Unit (Mandatory)	Ozone Layer Depleting Substance (Mandatory)	Memo	Parts/Material Name (Mandatory)	Mass (Mandatory)	Unit (Mandatory)	CAS No. (Mandatory)	Substance Name (Mandatory)	Content Amount /Rate (Mandatory)	Unit (Mandatory)	Purpose of Inclusion (Mandatory)	Company Name (ALPS) (Mandatory)	ALPS Site Name (Mandatory)	ALPS Parts No. (Mandatory)	ALPS Product Name

Appendix 7-2 Collective Registration Tool (For Automotive)

Input Sheet

Operating

Creation Date		
Company Code		
Supplier	Company Name	
	Sector Name	
	Person in Charge	
	TEL	
	E-Mail	

For automotive

Basic Product Information													Structure Parts Information			Chemical Substance Inclusion Data					Customer Information			
Division/ Factory Name (Mandatory)	Sector Name	Person in Charge	TEL	E-mail	Product No. (Mandatory)	Product Name (Mandatory)	Series Name	Category2 (Mandatory)	Product Mass (Mandatory)	Unit (Mandatory)	Ozone Layer Depleting Substance (Mandatory)	Memo	Parts/Material Name (Mandatory)	Mass (Mandatory)	Unit (Mandatory)	CAS No. (Mandatory)	Substance Name (Mandatory)	Content Amount /Rate (Mandatory)	Unit (Mandatory)	Purpose of Inclusion (Mandatory)	Company Name (ALPS) (Mandatory)	ALPS Site Name (Mandatory)	ALPS Parts No. (Mandatory)	ALPS Product Name

Appendix8: Environmentally Hazardous Substance Inclusion Report (serving also as guarantee on non-use of substances prohibited of use)

Environmentally Hazardous Substance Inclusion Report (serving also as guarantee on non-use of substances prohibited of use)

Abbreviation: Inclusion report

Investigation request No.

Date of submittal:
Day Month

Company Code

Company name

Responsible person

TEL

FAX

EMAIL

Company seal or sign

Prohibited substances..
ozone depleting substances, greenhouse substances, chloroform, glycol ether and its acetates, organic brominated solvents, benzene, aldehyde compounds, organic chlorinated solvents, cadmium and its compounds, mercury and its compounds, lead and its compounds, hexavalent chromium compounds, "lead, mercury, cadmiun, and hexavalent chromium in wrapping material", organostannic compounds, beryllium and its compounds, asbestos, specified brominated flame retardants, polychlorinated naphthalene, "polychlorinated biphenyl : PCB, polychlorinated terphenyls : PCT", chlorinated paraffins, azo dye/pigment forming specified amine compounds, radioactive substances, arsenic and its compounds, organophosphorus compounds, phthalic esters, perfluorooctane sulfonate and its related substances, biocidal coatings / biocidal additives, volatile organic compounds, hexachlorobenzene, chlorinated or brominated dioxins or furans, "dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex", 4-nitrobiphenyl and its salts, n-nitrosamines, phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-, vinyl chloride monomer, specified organic pigment

For details, refer to the Green Procurement Standard

Receipt

The products delivered as described in the table below contain the environmentally hazardous substances among those specified by Alps Electric Company.
The environmentally hazardous substances not stated herein are not contained.
It is guaranteed that prohibited substances described below are not contained.

Columns for intra-company treatment

ALPS parts number	Supplier product number	Supplier product name	Product mass (g)	Parts/Material Name	Parts mass (g)	Package insert number	Substance name	CAS No	Purpose of inclusion	Content amount (mg)	Content rate (ppm)		Applied

NOTE

Entry method:
1. Investigate the delivered products in the position unit as to whether the environmentally hazardous substances are contained and state all data to the above-mentioned table.
2. State all position name of the delivered products, and state to become equal the product mass and the all position mass.
3. The positions shall be constituted with homogeneous parts. State the position name and material name.
4. If the environmentally hazardous substances are contained, enter the content amount by each position.
5. If inclusion value has a range, enter the maximum value.
6. State the component name by individual name whenever possible, and enter also CAS number.
   However, if disclosure is not possible because of manufacturing know-how, group name may be permitted.
   If the environmentally hazardous substances aren't contained, select "AL99".
7. State the purpose of inclusion briefly. Examples: Stabilizer, coloring agent, prevention of deterioration, and anti-corrosion. If the environmentally hazardous substances aren't contained, state “the environmentally hazardous substances aren't contained”.
8. State metal compounds with mass of the compounds without performing metal conversion.
9. In case of alloy component, state content amount of the applicable hazardous substance.
10. For attached data of analysis data etc, state the applicable number in the individually applicable columns.
11. For details, refer to the Green Procurement Standards.

Note: Products containing the substances prohibited of use cannot be delivered.

Appendix 9: Reasons for Regulating the Environmentally Hazardous Substances

(applicable laws and effects on human bodies)

Regulations, standards etc.	
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	Japan
Industrial Safety and Health Act	Japan
Poisonous and Deleterious Substances Control Law	Japan
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	Japan
Act on the Protection of the Ozone Layer Through the Control of Specified Substances and Other Measures	Japan
Act on Special Measures against Dioxins	Japan
Offensive Odor Control Act	Japan
Act on Control of Household Products Containing Harmful Substances	Japan
Act on Prevention of Marine Pollution and Maritime Disaster	Japan
Water Pollution Control Act	Japan
Air Pollution Control Act	Japan
Agricultural Land Soil Pollution Prevention Act	Japan
Act on Promotion of Global Warming Countermeasures	Japan
Act on the Rational Use of Energy	Japan
Narcotics and Psychotropic Control Act	Japan
Waste Management and Public Cleansing Act	Japan
Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	EU
Directive 2011/37/EC of the European Parliament and of the Council of 30 March 2011 on End-Of Life Vehicles (ELV)	EU
REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending R	EU
REACH Annex XVII [except: CLP Annex VI Table 3.2 CMR-cat 1,2]	EU
Candidate List of Substances of Very High Concern for Authorisation ECHA : EUROPEAN CHEMICAL AGENCY Helsinki, 19 December 2011	EU
Restrictions of marketing and use of certain chemicals 76/769/EEC (7/26/1976)	EU
Council Directive of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances (67/548/EEC)	EU
Directive 94/62/EC of 20 December 1994 on packaging and packaging waste	EU

Regulations, standards etc.	
DIRECTIVE 2009/48/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 June 2009 on the safety of toys	EU
ESIS PBT [Fulfilled] European chemical Substances Information System	EU
Consumer Goods Ordinance (4/1997)	Germany
TSCA Asbestos 40 CFR Part 763 (1976)	US
TSCA Significant New Uses of Chemical Substances (SNURs) 40CFR Part 721(1976)	US
TSCA: Chemical Imports and Export 40 C.F.R. §707	US
TSCA: Reporting and Recordkeeping Requirement 40 C.F.R. §704	US
TSCA: Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions 40 C.F.R. Part 761. (1979)	US
TSCA: Water Treatment Chemicals: Hexavalent Chromium-based Water Treatment Chemicals in Cooling Systems 40 C.F.R. §749.68	US
Proposition65 (1986) [California State, USA]	US
Prohibition of Certain Toxic Substances Regulations, 2005 (2/15/2005)	Canada
Perfluorooctane Sulfate and its Salts and Certain Other Compounds Regulations [Federal]	Canada
Stockholm Convention on Persistent Organic Pollutants (POPs) Annex Ⅰ	global treaty
Montreal Protocol on Substances that Deplete the Ozone Layer (ODS)	global treaty
International Agency for Research on Cancer (IARC)	global treaty
GADSL : Global Automotive Declarable Substance List)	Industry standard
Joint Industry Guide (JIG)	Industry standard

To: Suppliers Date:

Communication on Environmentally Hazardous Substances Contained in Products

We wish to thank you for your usual cooperation.

While the environmental problem increases its seriousness in recent years, demands on business entities are also increasing as to their social responsibilities and ethical performances. Operations of laws related to environmental regulation are also becoming severer.

Based on such circumstances, we intend to maintain the policy of going thorough on non-use of substances having risks of affecting the environment (environmentally hazardous substances). We would, therefore, kindly ask you to submit the environmentally hazardous substance inclusion report on all products or parts we purchase directly or through third parties from you, your subsidiaries and affiliated companies, to promise us that your products do not contain the prohibited substances. Would you, therefore, please put your signature on the appended “Agreement in Relation with Works on Environment”, and return it to us?

If the above document cannot be returned, or although it is returned, if any fact breaching, or having a possibility of breaching the description of what you have promised with us is found, this could lead to a case that we can no longer continue business transactions with you, to which please kindly understand.

With my best regards,

Very sincerely yours,

Alps Electric Co., Ltd.

Alps Electric Co., Ltd. Date:

Agreement in Relation with Works on Environment

Company name: _____
Supplier code: _____
Address: _____
Telephone No.: _____
Representative product: _____
Responsible person
Title/Department: _____
Name: _____
Person in charge
Title/Department: _____
Name: _____
Telephone No.: _____
Fax: _____
e-mail: _____

We guarantee that we observe your "Green Procurement Standards" (hereinafter referred to as the Standards), and that the prohibited substances defined in the Standards shall not be contained in the products or parts (including accessories, packaging, and all other items delivered together with the products, hereinafter referred to the parts) as delivered by our company (including our subsidiaries, and affiliated companies, which shall apply hereinafter) either directly or through third parties to your company, your subsidiaries and affiliated companies (hereinafter referred to as your company).

In addition, in order to deliver the parts in compliance with the Standards, we are pleased to agree as described below:

1) We will execute the environmental evaluation on companies based on the provisions in the Standards, and submit to you the "Environment Managing Company (Supplier) Self-assessment Sheet".
2) We will execute the parts evaluation based on the provisions in the standard, and submit to you the "Environmentally Hazardous Substance Inclusion Report", and the verification data requested by you (analytical data, component tables, and MSDS.
3) When the Standards are revised due to amendments in laws or change in social circumstances, we will confirm the contents of the revision immediately, and if there are any parts that do not comply with the revised standard, we will report to you to that effect.
4) We will follow the matters of requests made by you from time to time according to the definitions given in the Standards.

Signature: _____

アルプスグループ環境憲章

基本理念

アルプスは地球社会の一員として、社会の持続可能な発展のため、
卓越した技術に支えられた事業活動とし社員行動を通じて、
美しい自然を守り、貴重な資源を大切にします。

行動指針

私たちはいつも環境保全に心掛け

1. 環境を意識した製品開発に取組みます
2. 環境にやさしい生産・販売に取組みます
3. モノを大切にします
4. ムダを省きます
5. リサイクルに努めます

The Alps Group Environmental Charter

Basic Philosophy

Alps, as a member of the global community, is committed to protecting the beauty of nature and to safeguarding our precious resources through the use of technologically advanced business practices and the efforts of its employees, in order to promote sustainable development.

Action Program

Placing priority on environmental preservation, we at Alps will:

1. Develop products in light of environmental concerns
2. Engage in environmentally friendly production and sales
3. Conserve our natural resources
4. Reduce or eliminate waste
5. Increase recycling activities

ALPS
アルプス電気株式会社
ALPS ELECTRIC CO., LTD.

このパンフレットは大豆インキを使用しています。
このパンフレットは FSC 認証の「環境にやさしい用紙」を使用しています。