ALPS ELECTRIC CO., LTD.

Green Procurement Standards

(Appendix)

Friendly to people, friendly to nature.

Enforced: May 1st, 2014
Revised: April 1st, 2014
Established: July 26, 2002
ALPS ELECTRIC CO.,LTD.

CONTENTS

Explanation and procedure of self-evaluation sheet for supplier of environmental management [Ver.4.0]

1. Explanation and procedure

This check sheet is prepared by Alps Electric requests its suppliers to take actions according to the action item list described in the guideline which an article management promotion conference (JAMP) publishes.
It explain

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

(4) 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

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: In order to satisfy an enforcement item, it is necessary to perform employment (measure) based on a rule (mechanism) and a rule. Each question to Action items is fundamentally set up from the viewpoint of a rule, and/or a viewpoint of employment.
either through documentation or records.If employment based on a rule is appropriately carried out to the contents of the question, consider it as "conformity." The employment based on a rule needs to be able to check objective.

Partial conformance:When employment which satisfies the contents of "question" substantially is carried out or a rule or a part of employment has a defect, consider it as "Partial conformance".
In any case, it is important that it is in the state for which the defect is coped with in actual employment and which applies to conformity correspondingly. To be able to check objective is required like the case of "Conforming", to judge "Partial conformance", it is necessary to clarify a still more deficient point, and an improvement plan needs to be shown.

Non-Conforming: When there is no rule corresponding to "question", and/or when employment is not performed, about the question concerned, consider it as "Nonconforming".

Not Applicable: When "Action items" or a "question" does not correspond to an organization, can remove for evaluation as "Not Applicable." However, the explanation of a basis judged to be "Not Applicable" is required.

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 94 items in total, when all Required Levels are "Conforming," the full marks shall be 282 points. Since the full marks change when there are Not Applicable columns, the full marks are converted into 100 points using the following method.

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

When 94 items are applicable among the 90 Required Level items and the score is 250 points:

$250 \times 100 \div (90 \times 3) = 250 \times 100 \div 270 = 92$

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. The record name to indicate should refer to the contents which I have written in the column of "Example of a reply : the cautions point of management."

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 anagement

Alps Electric requests its suppliers to take actions according to the action item list described in the guideline which an article management promotion conference (JAMP) publishes.

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 article management promotion conference (JAMP) publishes.
*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 (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
4.1 Management of Chemical Substances in Products in General : This check sheet is in compliance with JIS Z 7201:2012 "Management of Chemical Substances in Products - Principles and Guidelines", however "4.1" is only a title without any specific action details. Therefore, no questions are given under 4.1																
4.2 Representation of the Management Policy of Chemical Substances in Products																
Top managers in charge of management of chemical substances in products shall determine the management policy of chemical substances in products for the organization and address appropriate implementation of management of chemical substances in products																
1	Common Management	Verification of Implementation	●			(1) Has the top management determined the management policy of chemical substances in products and addressed implementation of the effectual management of chemical substances in products?	<sample answer> - xxx Co. Ltd., the environment policy - xxx Inc., the quality policy - xxx Corporation management policy, management slogan <note & point of management> - The policy shall include contents suggesting management of chemical substances in products, such as compliance with laws and regulations, satisfying customers' requirement, etc. etc. - Tops managers are those who regulate management of chemical substances in products			(1) Enter the name of policy document which defines the management policy of chemical substances in products						
2	Common Management	Review		●		(2) Do you review the policy whenever it is required?	<sample answer> - Date of review or revision : dd/mm/yyyy <note & points of management> - "Whenever it is required" means upon amendment of law or regulations, management review, a customer request, etc. the organization conducts review of such amendment., - After the policy is reviewed for the purpose of management of chemical substances in products and if the policy is not necessary to revise, it is acceptable if the organization verifies to maintain the existing policy. For example, the responsible person of environmental management issues a comment "it is not necessary to revise the policy" in the management review , etc.			(2) Enter when was the latest review of the policy						
3	Common Management	Documentation		●		(3) Do you have any document which defines the procedure to implement (1),(2) shown above?	<sample answer> - "Regulations of Management of Chemical Substances in Products" Document No. xxxx Revision 01 Article No. xx : Determine the management policy Article No. xx : Dissemination of the management policy Article No. xx : Review of the management policy			(3) Enter the name of document specifying about formulating the policy, and its document no., an article name, revision no.						
4	Common Management	Dissemination	●			(4) Do you inform and disseminate the policy to all the concerned departments?	* Questions based on "4.3.4 Internal Communication" stated in JIS Z 7201 Management of Chemical Substances - Principles and Guidelines <sample answer> - Posters posted in the company - Published by Intranet			(4) Enter the dissemination method of the policy						
4.3 Planning : This Check Sheet is compliant to JIS Z 7201:2012 the Management of Chemical Substances in Products - Principles and Guidelines". "4.3 Planning" is only a title without any specific action details and therefore no question is given under 4.3																
4.3.1 Defining the Management Criteria of Chemical Substances in Products																
The organization shall determine and document the management criteria of chemical substances in products.																
5	Common Management	Verification of Criteria and Implementation	●			(1) Do you have clear management criteria of chemical substances in products which defines chemical substances subject to management of chemical substances in products and the management level?	<sample answer> - "Regulations of management of chemical substances in products (Document No. xxxx Revision 01)" Article No. xx : "List of prohibited substances / management of inclusion in products" <note & point of management> - In case that the organization declares no possibility of inclusion in products based on the scientific grounds, it doesn't have to reflect the management criteria, however the evidence or the facts need to be provided - The management level means the level of "prohibited to use" or "management of contained chemicals", etc.			(1) Enter the name of the management criteria which specifies chemical substances subject to management of chemical substances in products and the management level.						
6	Common Management	Verification of Implementation		●		(2) Do you have a clear scope where the management system of chemical substances in products is applied?	<sample answer> Products designed or developed by xxx Co. Ltd. and their packing materials <note & points of management> - If all products are subject to management of chemical substances in products, describe as it is (targeting all products). The scope of application can be clearly defined by dividing a scope by an organization, a product or a manufacturing process, etc. It is also acceptable if the scope of non-application (scope where management of chemical substances in products is NOT applied) is specified			(2) List up the scope of application						
	gement	mentation				(3) Do you identify laws and criteria which you refer to when you develop the management criteria of chemical substances in products?	<sample answer> - It is defined based on laws, regulations and the industry criteria - it is specified based on the customer requirements - It is defined based on JAMP declarable substances list			(3) List up the criteria which you referred to (or reflect) when the management criteria were developed						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
7	Common Mana	Verification of Impl	●			in products?	- It is defined based on JAMP declarable substance list - It is corresponding based on JIG-101, JIG-201									
8	Common Management	Review	●			(4) Do you review the management criteria whenever it is required?	<sample answer> Date of revision : ****** Reason for revision : ******			(4) Enter when was the latest revision and also state its reason						
9	Common Management	Documentation		●		(5) Do you have any document which defines the procedure to implement (1)-(4) shown above?	<sample answer> - "Regulations of management of chemical substances in products" Document No. xxxx Revision 01			(5) Enter the name of the document which specifies drawing up the management criteria of chemical substances in products and defines the revision procedures. Also state its document no. an article name, revision no.						
10	Common Management	Dissemination	●			(6) Do you inform and disseminate the management criteria of chemical substances in products to all the concerned departments?	* Questions are based on "4.3.4 Internal Communication" stated in JIS Z 7201 "Management of Chemical Substances in Products - Principles and Guidelines)" <sample answer> - The latest version is publicized by intranet to disseminate to all the concerned department at the time of revision			(6) Enter the dissemination method of the management criteria of chemical substances in products.						

4.3.2 Target and Implementation Plan

- The organization shall set The target for management of chemical substances in products. The organization shall draw up, implement and sustain The implementation plan to achieve The target. The organization shall review The target and The implementation plan whenever needed.

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
11	Common Management	Verification of Implementation	●			(1) Do you set the target for management of chemical substances in products?	<sample answer> - 2012 Environmental Target "Zero nonconformance of chemical substances in products" <note & point of management> - In case that the system to manage chemical substances in products has already been established, it is acceptable if the organization has already set the target (or the policy) to continue and sustain the management system.			(1) Enter the name of the document which set the target to manage chemical substances in products						
12	Common Management	Verification of Implementation	●			(2) Do you formulate the implementation plan to achieve the target? Do you implement and sustain it?	<sample answer> - Chemical substance inspection plan - Supplier evaluation plan			(2) Enter the name of the document in which the plan is recorded and the name of the record where the implementation status is recorded						
13	Common Management	Review	●			(3) Do you review the target or the implementation plan whenever it is required?	<sample answer> Revision of target: 20 retention period : dd/mm/yy Revision of implementation plan: 20 retention period : dd/mm/yy			(3) Enter when was the latest revision of the target and the implementation plan						
14	Common Management	Documentation		●		(4) Do you have any document which defines the procedure to implement (1)-(3) shown above?	<sample answer> - "Regulations of management of chemical substances in products (Document No. xxxx Revision 01)" Article No. xx : Objective / target			(4) Enter the name of the document which defines to set the target and to draw up the implementation plan. Also state its document no, an article name, revision no.						
15	Common Management	Dissemination	●			(5) Do you disseminate the target and the implementation plan to all the concerned departments concerned?	* Questions based on "4.3.4 Internal Communication" stated in JIS Z 7201 Management of Chemical Substances in Products - Principle and Guidelines <sample answer> - Published by intranet			(5) Explain the method to disseminate the target or the implementation plan						

4.3.3 Defining Responsibility and Authority

The organization shall determine responsibilities and authorities to implement management of chemical substances in products effectively.

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
16	Common Management	Verification of Implementation	●			(1) Have you defined roles and departments to be engaged in management of chemical substances in products?	<sample answer> - Quality management organization chart, Environmental management organization chart, organization chart of management of chemical substance in products, etc. <note & point of management> - The roles of management of chemical substances in products can be defined in the system of quality management or environmental management. - it is advisable that "role/responsibility/authority" is specified in the organization chart - "Clearly defined responsibilities and authority" is synonymous with "departments and roles have been clearly determined			(1) Enter the name of the document which defines the role and the relevant department to be engaged in management of chemical substances in products						
17	Common Management	Documentation		●		(2) Do you have any document which defines the procedure to implement (1) as shown above?	<sample answer> - "Regulations of management of chemical substances in products (Document No. xxxx Revision 01)" Article No. xx : Responsibility, Authority and Role			(2) Enter the name of the document which defines the role and the departments to be involved in management of chemical substances in products. Also state its document no, an article name and revision no.						
						(3) Do you disseminate to all departments concerned about the roles and the departments of management of chemical	* Questions based on "4.3.4 Internal Communication" stated in JIS Z 7201 Management of Chemical Substances in Products - Principles and Guidelines			(3) Explain the method of dissemination about roles and departments						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
18	Common Management	Dissemination	●			substances in products?	<sample answer> - "Regulations of management of chemical substances in products" are published by intranet to disseminate to all departments concerned at the time of revision									

4.4 Operation and Management & 4.4.1 Operation and Management in General:

(Note) "4.4.2 Management of chemical substances in products at design and development" is applicable not only limited to the design department. If the organization selects own parts and components, the organization obtains "design function" and therefore this action item becomes applicable

The check sheet is compliant to "JIS Z 7201:2012 Management of Chemical Substances in Products - Principles and Guidelines", however "4.4 Operation and Management" and "4.4.1 Operation and Management in General" do not have any specific action details. Therefore, no question is given under 4.4 and 4.4.1.

4.4.2 Management of Chemical Substances in Products at Design and Development

For the purpose of producing products which can fulfill the management criteria of chemical substances in products in the stage of design and development, the organization shall define clearly and document the management criteria of chemical substances in products at the respective stage of purchasing, manufacturing and delivery corresponding to products and the nature of business.

No	Main Classification	Sub-Classification	Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
19	Process Control	Verification of Implementation	●			(1)For the purpose of satisfying the management criteria of chemical substances in products, do you verify during design and development (before start of production) whether or not the applicable products fulfill the management criteria of chemical substances in products at the respective stage as shown below ? (Purchasing the management criteria of chemical substances in products at purchasing (Manufacturing the management criteria of chemical substances in products for the manufacturing process (Delivery the management criteria of chemical substances in products at delivery	<sample answer> (Purchasing stage) (1) Purchased products have been inspected and do not contain prohibited substances for use (2) Evaluation result of the supplier who supplies the products is acceptable (Manufacturing stage) -The manufacturing process satisfies the process control criteria including the management criteria of chemical substances in products (Delivery stage) -To satisfy delivery conditions, the above verification items at the purchasing stage and the manufacturing stages have to be fulfilled <note & point of management> - It is acceptable if contents of the management criteria at purchasing, the management criteria at manufacturing and the management criteria at delivery match the nature of the business operation * Questions concerning the management criteria of the respective stage appear in each action item as shown below - The organization shall verify by the specification of mass production products - The organization shall Identify whether or not there is a process which may generate concentration change of contained chemical substances. If the process causes a change, such a change needs to be considered			(1) Explain details of verification to evaluate during design and development if applicable products satisfy the management criteria of chemical substances in products at the respective stage (as shown in left cell)						
20	Process Control	Verification of Implementation		●		(2)Do you record the result of verification as shown in (1)?	<sample answer> The following are evaluation items for product assessment report 1. the purchasing management criteria evaluation result 2. the manufacturing management criteria evaluation result 3. the delivery criteria evaluation result			(2) Enter the name of record containing verification result of above (1)						
21	Process Control	Documentation	●			(3) Do you have any document which defines the procedure to implement (1) (2) shown above?	<sample answer> - "Regulations of Product Assessment" Article No. xx : Product Evaluation <note & point of management> - "The stage of design and development" means not only works done in the design and development department, but also including works done by the relevant departments up to start of production			(3) Enter the name of the document which defines the procedure to implement the above (1) (2). Also state its document no, an article name, revision no.						

4.4.3 Management of Chemical Substances in Products at Purchasing : **The check sheet is compliant to "JIS Z 7201:2012 Management of Chemical Substances in Products - Principles and Guidelines", however, "4.4.3 Management of Chemical Substances in Products at Purchasing" is only a title without specific action details. Therefore, no question is given under this**

4.4.3.1 Collection and Verification of Information of Chemical Substances in Products

The organization shall present the management criteria of chemical substances in products for purchasing (hereinafter referred to as "the purchase management criteria") to suppliers, and collect necessary information of chemical substances in products. The organization shall verify if information of chemical substances in the purchased products satisfies the purchase management criteria and record the result accordingly

No	Main Classification	Sub-Classification	Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
22	Process Control	Verification of Criteria	●			(1) Do you have the purchase management criteria which include chemical substances specified by the management criteria of chemical substances in products and the management level?	<sample answer> - Green Procurement Criteria (List of declarable substances) - Green Procurement Chemical Substance Questionnaire <note & point of management> - Packing materials, secondary materials and sub-materials shall also be subject to the purchase management criteria			(1) Enter the name of the management criteria for purchasing						
23	Process Control	Dissemination	●			(2) Do you disseminate "the purchase management criteria "for the above purchased products to the suppliers?	<sample answer> The method of dissemination: - The company made a list of suppliers (purchased products) and sent "Green Procurement Criteria" to all the listed suppliers. The company collected "acknowledgement of receipt" from them. - The company specifies in the business agreement, the final specification of parts or in the drawing, that "compliance to Green Procurement Criteria" may be required by the company whenever necessary. Time of dissemination : [at the start of fresh purchase and when the criteria is revised]			(2) Explain the dissemination method of "the purchase management criteria" to suppliers and when to disseminate it Dissemination method : [Dissemination time : [						
24	Process Control	Verification of Implementation	●			(3) Do you verify for all constituent elements constructing the end product whether or not information of chemical substances in products is needed, and collect all necessary information of chemical substances in products ?	<sample answer> - By linking the survey results to BOM (bill of material) of the product, the company verifies if all parts and materials are surveyed. Sub materials which cannot link to BOM (bill of material) are managed by using another list <note & point of management> - Secondary materials, sub-materials or packing materials should also be included as constituent elements if necessary. - When there is some element out of product's constituent elements that should be exempted from the survey, provide the reason for exemption Example: Parts or materials that are specified by the customer have been agreed on with the customer to exclude them from survey The company has defined the person in charge, the procedure and the method to collect information of chemical substances contained in purchased products (raw materials / parts and components)			(3) Explain the method how to verify if information of chemical substances in products is obtained for all constituent elements constructing the end product * If this action item is considered not required for management of chemical substances in products, state its reason						
25	Process Control	Verification of Implementation		●		(4) Does information of chemical substances in products collected in the above (3) indicate clearly about any or no inclusion, content, concentration or its usage, etc.?	<sample answer> - Parts : JGP file, JAMP AIS, JAMA/JAPIA Sheet etc. - Material: JAMP MSDSplus, composition table, certificate of non-use, etc. <note & point of management> - The company shall ensure that all information is provided - If the company has its own format, the company shall ensure that the format includes any or no inclusion,			(4) Enter the names of the survey format for each material or for each part * In case there are a variety of formats for each type of purchased materials and parts, list the format for each type of purchased parts and materials						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
	Proce	Verification					content, concentration, its usage as the survey items									
26	Process Control	Verification of Implementation	●			(5)About collected information of chemical substances in products as shown in above (3), do you judge the conformance status to the management criteria for each purchased product?	<sample answer> - The company evaluates either "OK" or "NG" for every survey result collected individually and record it accordingly			(5) Explain the method of judging the conformance status to the management criteria for each purchased products. Also provide the recording method						
27	Process Control	Verification of Implementation	●			(6) When necessary information shown in above (3) could not be collected, or if it does not satisfy the purchase management criteria, have you defined the action to respond to this case?	<sample answer> The company has already verified the survey in document that showed no inclusion of prohibited substances during the stage of design and development. Hence, the company shall collect "information of chemical substances in products" until the delivery verification. <note & point of management> - If it does not conform to the management criteria, the company shall take a necessary response such as "no purchasing"			(6) Explain how to respond to the case if the company fails to collect information, or the purchase management criteria is not satisfied						
28	Process Control	Verification of Implementation		●		(7) Is the information of chemical substances in products aggregated for each end-product?	<sample answer> - "Chemical Substance Management System" Aggregation result of information of chemical substances in products <note & point of management> - Aggregation by each end product means to aggregate against the management criteria of chemical substances regulated in "the purchase management criteria"			(7) Enter the name of the record which is the aggregated information of chemical substances in products for end products						
29	Process Control	Verification of Implementation	●			(8) Do you judge the conformance status to the management criteria of chemical substances in products for each end product before start of manufacturing?	<sample answer> - "Chemical Substance Management System" judgment result of product <note & point of management> - Judgment of the conformance status means to judge the conformance status against the criteria defined in "the purchase management criteria" such as prohibited to use, etc.			(8) Enter the name of the record which shows verification of the conformance status to the management criteria of chemical substances for end						
30	Process Control	Documentation		●		(9) Do you have any document which defines the procedure to implement as shown (1)-(8) above?				(9) Enter the name of the document which defines the procedure of verification and collection of information of chemical substances in products. Also specify its document no, an article name, revision no.						

4.4.3.2 Verification of the Management Status of Chemical Substances in Products at Supplier

#NAME?

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
31	Process Control	Verification of Implementation	●			(1) Do you request the suppliers to establish and operate the management system of chemical substances in products for the purpose of fulfilling the management criteria of chemical substances in products?	<sample answer> - The company requests the suppliers in "the Green Procurement Criteria" to establish and to operate the management system based on "Guidelines for the management of chemical substances in products" <note & point of management> - The management system of chemical substances in products which can satisfy the management criteria of chemical substances in products means the system which can manage contained chemical substances in products appropriately at the respective stage of purchasing, manufacturing and delivery Example: Main requirements stated in "Guidelines for the management for chemical substances in products (Ver. 3.0) are shown below A. Defining the management criteria B. Collection and verification of information of chemical substances in products C. Verification of the management status at the supplier D. Verification at receiving E. Prevention of contamination by incorrect use or admixture F. Appropriate management of reaction process G Traceability H. Change management I. Response to occurrence of nonconformance - if there is any exemption from the management, state its reason and specify the action - In case of multi-sourcing (purchasing from several			(1) List the name of the standard / the criteria for management of chemical subspaces in products which you request to the supplier						
32	Process Control	Verification of Implementation	●			(2) Do you verify the management status of chemical substances in products at the supplier when you appoint a new supplier?	<sample answer (verification details, items)> a. the check sheet of Guidelines for the management of chemical substances in products (version 3.0) b. other check sheets c. certification of ISO9001/ISO14001 * In case of verifying certification of ISO9001/ISO14001, it is necessary to verify if "management of chemical substances in products" is also included e. verification of the system for no inclusion of prohibited chemical substances <sample answer (verification method)> a. details including the above tools are verified by using email or checking the document b. when required, details including the above tools are verified at the supplies' place c. the company verifies the management status published in a website or from other open source <note & point of management> - Verification details correspond to requirements (refer to note & point of management in ①) to the suppliers			(2) Explain verification details and the method of verification when the company appoints a new supplier. Verification details (items) : [Verification method : [						
						(3) When you continue business with the supplier, do you re-verify the management status of chemical substances in products periodically when	<sample answer (verification target)> a. the company verifies all the suppliers b. only the suppliers whom the company decides as necessary are subject to verification			(3) Explain the method of re-verification from the following points Target : [Verification details (items) : [						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
33	Process Control	Verification of Implementation	●			required?	<sample answer (verification details, items)> a. the check sheet of Guidelines for the management of chemical substances in products (Ver. 3.0) b. other check sheets c. certification of ISO9001/ISO14001 * in case of verifying certification of ISO9001/ISO14001, it is necessary to verify if "management of chemical substances in products" is also included e. verification of the system for no inclusion of prohibited chemical substances <sample answer (verification method)> a. details including the above tools are verified by using email or checking the document b. when required, details including the above tools are verified at the supplies' place c. the company verifies the management status published in a website or from other open source <sample answer (frequency)> frequency: more than once every 2 years <note & point of management> - Verification details correspond to requirements (refer to note & point of management in ①) to the suppliers			Verification details (items) : [method : [frequency : [						
34	Process Control	Record	●			(4) Do you record verification result of the management status of chemical substances in products at the suppliers for (2) (3) shown above?	<sample answer> - Judgment record - List of evaluation result of the suppliers			(4) List the name of the record which shows the evaluation of the suppliers						
35	Process Control	Verification of Implementation	●			(5) Have you defined any response or any action to take for (2) (3) shown above, when verification for the management status of chemical substances in products is incomplete or when verification contents or verification result show some problem?	<sample answer (method of action)> a. Actions include "improvement request" b. Actions include "guidance (instruction)", and the company actually gives guidance to the supplier c. While the company gives the improvement guidance to the supplier, the company continues verification whether or not any problem still remains by analyzing every lot until the completion of improvement activity d. Actions include "cease business"			(5) Explain the method of action or response when verification for the management status is incomplete, or when the problem is found in verification contents or verification result						
36	Process Control	Verification of Implementation		●		(6) Do you request and verify the following to the suppliers (the first tier supplier)? ・to develop and operate the management system of chemical substances in products for the suppliers (the second tier supplier) of their purchased products	<sample answer> The company verifies the supplier's status as stated below - The company inspects the evaluation record (such as a check sheet, etc.) conducted by the supplier (the first tier supplier) and verifies if the evaluation of the second tier supplier is properly conducted. <note & point of management> - Verification contents are the same as requirements for the supplier (refer to the above (1) "note & point of management")			(6) Explain your verification method (how you verify)						
37	Process Control	Verification of Implementation		●		(7) In your evaluation to determine a new supplier or to re-appoint the existing supplier, do you verify the following? ・if the supplier inspects and identifies if there is any process or any material which may cause a contamination of prohibited substances as defined in the management criteria of chemical substances in products	<sample answer> -1 The company verifies the followings: 1) If there is any process of parallel production which may cause a contamination of RoHS substances 2) If the supplier uses any recycled material (open / closed) which may be contaminated with RoHS substance 3) if there is any solder bath which may be contaminated with RoHS substances			(7) Explain verification contents to identify if there is any process or any material which may cause a contamination of prohibited substances which is defined by the supplier for the management criteria of chemical substances in products						
38	Process Control	Verification of Implementation		●		(8) In the verification result shown in (7), if there is a possibility of contamination of prohibited substances specified in the management criteria of chemical substances in products at the supplier, do you verify if the supplier implements proper management to prevent contamination of prohibited substances?	<sample answer> - Example of the management method when there is a parallel production which may cause contamination of RoHS substances 1) Segregating the storage shelves for products containing prohibited substances or segregating product packaging (labeling., etc.) 2) Isolating components and parts containing prohibited substances 3) Parts and components containing prohibited substances are managed only by the authorized person 4) The company has verified that equipment, tools, jigs and containers that are used for components and parts containing prohibited substances, but difficult to clean, are not used to produce components and parts which do not contain prohibited substances 5) For the purpose of preventing contamination, the company has defined the cleaning standards for cleanable equipment, tools, jigs and containers which are used for components containing prohibited substances - Example of the management method for using recycled materials 1）Conducting analysis for every lot at receiving - Example of the management method for using a solder bath 2）Periodical analysis of solder bath			（8）List an example of the appropriate management method (proper method from the company's viewpoint) for preventing contamination of incorrect use or admixture						
39	Process Control	Verification of Implementation		●		(9) As a result of (8) shown above, when management cannot be verified at the supplier, do you verify and manage by yourself whether or not "purchased products fulfill the purchase management criteria" based on a proper evidence?	<sample answer> - When management is not performed sufficiently at the supplier despite of possible contamination of RoHS substances due to parallel production, recycled materials (open/closed) or concentration change in solder bath, the company conducts analysis using chemical analysis devise (XRF, ICP, etc.) <note & point of management> Proper evidence is shown in the next examples - The company collects and verifies the analysis data of initial delivery from the supplier and carries out periodical incoming analysis for every lot of products - Periodical analysis of the end product at the customer - f a purchased product is a material, the company collects the certificate of material issued by the material manufacturer			(9) Explain the evidence-based method of verification and management you (organization) conduct by yourself when management is not practiced sufficiently						
40	Process Control	Documentation		●		(10) Do you have any document which defines the procedure to implement (1)-(9) shown above?	<sample answer> - "Regulations of supplier management (Document No. xxxx Revision 01)" Article No. xx : Requirements, Article No. xx: Updating evaluation, Article No. xx: Actions when evaluation is not conducted			(10) Explain the name of the document which defines the procedure to evaluate the supplier. Also state its document no, an article no, and revision no.						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
4.4.3.3 Management of Chemical Substances in Products at Receiving																
	The organization shall verify purchased products upon receiving if they fulfill the purchase management criteria of the organization and record it accordingly															
41	Process Control	Verification of Implementation	●			(1) Do you verify whether or not the purchased products fulfill the purchase management criteria at receiving?	<sample answer> - The company verifies that the purchased products satisfy the purchase management criteria prior to issuing a purchase order. Therefore, the company inspects model names and model numbers against ordered items. <note & point of management> - Receiving verification also includes products produced by the outsourcing organization - The company may select verification targets, criteria, method and frequency depending on the risk level - If the company has the ordering system which allows to issue an order only for parts/materials that are compliant to the management criteria, the company may inspect only order numbers or model names at receiving			(1) Explain the specific method of verification						
42	Process Control	Verification of Implementation		●		(2) Do you conduct verification by evidence such as analysis when it is required?	<sample answer> Management target: Resin recycled materials Method of verification: the company conducts verification based on the analysis data received from the supplier or in-house XRF analysis result <note & point of management> - If there is a risk in secondary materials (indirect materials) such as solder, grease, adhesives, oil, tape, cushion material, bonding material, ink (including marker pen, stamp) that are used for (or applied to) products, they should also be subject to verification - It is advisable to incorporate the following contents into the procedure that verifies the analysis data of purchased parts and components a) If a content (volume) of prohibited substances is measured in the company to make a judgment ⇒ See below (1)-(3) b) If a judgment is made based on the data collected from the supplier or from the outsourcing organization⇒ See (1)-(3) below c) If a judgment is made based on the result of the analysis conducted by the external organization ⇒ See (2) below (1) items subject to analysis, chemical substances, number of samples, frequency of measurement, judging criteria * the method of measurement is also considered for the judging method of hexavalent chromium or specific bromine that can not be measured by XRF analysis (2) Reporting channel or roles in case of abnormal value			(2) Enter the targets that are required to verify by the evidence such as analysis. Also state its method of verification Management target: [Method of verification: [						
43	Process Control	Record	●			(3) Do you record the result of above (1)?	<sample answer> - Incoming inspection performance record, Measurement record			(3) Enter the name of the records where receiving verification is recorded						
44	Process Control	Documentation		●		(4) Do you have any document which defines the procedure to implement (1)-(3) shown above?	<sample answer> - "Receiving inspection criteria (Document No. xxxx Revision 01) Article No. xx : Receiving inspection			(4) Enter the name of the document which specifies the method of verification at receiving, and also state its document no, an article (item) name, a revision no.						

4.4.4 Management of Chemical Substances in Products for the Manufacturing Process:

4.4.4.1 Management of Chemical Substances in Products for the Manufacturing Process in General

This check sheet is compliant to "JIS Z 7201:2012 Management of Chemical Substances in Products - Principles and Guidelines", however 4.4.4 Management of Chemical Substances in Products for the Manufacturing Process is only a title without specific action details. Therefore, no question is given under this action item.

	The organization shall manage the manufacturing processes in accordance with the management criteria of chemical substances in products for manufacturing processes and record the result accordingly.															
						(1) Is there any possibility to generate any restricted substances or to have residue of restricted substances exceeding the management criteria of chemical substances	<sample answer> - applicable process : electroless nickel plating - used material: plating solution（Ni90-92%、P8-10%、below Pb 1000ppm） - declarable substances : lead - type of reaction: a very small amount of lead compound			(1) If the condition in Question (1) is applicable, enter the applicable process, used materials and reaction details						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
45	Process Control	Verification of Implementation	—	—		criteria of chemical substances in products, when there is a conversion process of composition change or concentration change in the manufacturing process using chemical substances/mixture, but no appropriate management is conducted? * If the above condition does not apply, enter "non-applicable" into (2)-(4)	- type of reaction: a very small amount of lead compound (which is added to stabilize a bath) goes into a film during reaction <note & point of management> Declarable substances specified by the management criteria of chemical substances in products may possibly be generated or remained exceeding the management criteria Example of concentration change, reaction process - Polymerization (PVC: chemical reaction of vinyl chloride) - Electroless nickel-plating process (lead: concentration change in plating solution) - Ink. paint (lead, cadmium, etc. :change in concentration due to volatilization of solvent, etc.) - Sealant agent (DBT, DOT: hardening reaction of two-component mixed type sealant)			applicable Process：[used material：[declarable substances：[reaction details：[						
46	Process Control	Verification of Criteria and Implementation	●			(2) For the process applicable to (1) above, do you define the management criteria of chemical substances in products for the manufacturing process and manage the process accordingly?	<sample answer> - the document that defines the management criteria for the stage of manufacturing ：[Operation Manual of Plating Process] - Specific method of management ：[in order to regulate lead added into plating solution as a stabilizer, the company set the criteria value of lead (Pb) at "xxx ppm" and analysis is carried out monthly for verification purpose] <note & point of management> - In case of manufacturing chemical substances/mixture, do you define the purchasing conditions, the manufacturing process, the manufacturing condition, the inspection and delivery conditions in order to satisfy the management criteria for products, while focusing on chemical substances/mixture contained in raw materials or secondary materials and chemical substances added, generated and removed in the process? - In case of manufacturing articles using chemical substances/mixture, do you design products or a process while focusing on a change in concentration of chemical substances or a change in the type of chemical substances contained in articles during the process based on logical reasons? * it applies when solder, adhesive, grease or ink, etc. is used in the process - It is acceptable if "the management criteria of chemical			(2) List the document specifying the management criteria in the manufacturing stage for the applicable ・the document defining the management criteria in the manufacturing process ： [・specific method of management ： [						
47	Process Control	Record	●			(3) Do you record the management result shown in (2) above?	<sample answer> - Test piece analysis report (for plating process)			(3) Enter the name of the record which contains the management result						
48	Process Control	Documentation		●		(4) Do you have any document which defines the procedure to implement (2)-(3) shown above?	<sample answer> - "Rules of process management (Document No. xxxx Revision 01)", Article No. XX : Management of reaction process "Operation Procedure"			(4) Enter the name of the document which specifies the process management. Also state its document no.						

4.4.4.2 Prevention of Contamination by Incorrect Use or Admixture

The organization shall implement the preventive measures against contamination by incorrect use or admixture of chemical substances which are applicable under the management criteria of chemical substances in products

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
49	Process Control	Verification of Implementation	●			(1) Do you implement the preventive measures against contamination by incorrect use or admixture of chemical substances which are subject to the management criteria of chemical substances in products? *Actions for "prohibited material" specified in the management criteria of chemical substances in products are verified in (2)-(7)	<sample answer> - Management is practiced in accordance with QC process chart <note & point of management> - It is acceptable if details of preventive measures against contamination by incorrect use or admixture are specified according to the management level of chemical substances that may cause contamination (prohibited substance or management of contained substances) - If there is no possibility of contamination by incorrect use or admixture of "prohibited substances as defined by the management criteria of chemical substances in products, it is acceptable if the company conducts general process control to prevent contamination by incorrect use or admixture - If there is a process or a material which may cause contamination by incorrect use or admixture of "prohibited substances" as specified in the management criteria of chemical substances in products, the company needs to undertake actions of (3)-(7) below			(1) Explain the specific method of management * If there is a process which may cause contamination by incorrect use or admixture of "prohibited substances" as defined by the management criteria of chemical substances in products, specify the management method in (3)～(7)						
50	Process Control	Verification of Implementation	—	—		<Actions for prohibited substances> (2) Is there any process which may cause contamination by incorrect use or admixture of "prohibited substances" as specified in the management criteria of chemical substances in products or is there any process or material which is not yet verified? * If there is no possibility of contamination by incorrect use or admixture as well as there is no process or no material which has not been verified, enter "non-applicable" in (3)-(7)	<sample answer> - Parts or material： electrical cable - Prohibited substances： lead - Process： surface mount process - Use: to be used for automobile parts <note & point of management> - The company needs to include not only the processes for the targeted customer, but also other processes when judging whether or not "prohibited substance "may possibly cause contamination by incorrect use or admixture - The followings are examples of suspected contamination by incorrect use or admixture of "prohibited substances" as specified in the management criteria of chemical substances in products a. There is a parallel production using "prohibited substances" in the production line allocated for the customer of no-restriction, b. Recycled material (open / closed) is used			(2) If there are parts or materials containing prohibited materials, list the name of parts and materials containing prohibited substances. Also state prohibited substances, a process and its use						
51	Process Control	Verification of Implementation	●			<Actions for prohibited substances> (3) Do you conduct proper management to prevent contamination by incorrect use, admixture or mix-up at receiving of parts and materials or at the storage area (including secondary materials and packing materials)?	<sample answer (the management method)> - to put a label "nonconformance" onto nonconformance parts (electrical cable containing lead) at receiving - to put a divider to segregate nonconformance parts and materials that contain prohibited substances in the storage area - At receiving, the company analyzes open recycled materials for each lot by XRF analysis equipment and verifies if prohibited substances do not exceed a threshold value due to inconsistency of concentration <notes & point of management> - For conducting the effectual management method to prevent contamination by incorrect use or admixture, the management method has to be in such a manner that anyone working in management doesn't make any mistake (ex. labeling, specialization, limiting the person in charge, etc.)			(3) Explain the specific method of management to prevent contamination by incorrect use, admixture or mix-up at "the parts and material storage area (including secondary material and packing material)"						
	Process Control	n				<Actions for prohibited substances> (4) Do you conduct proper management to prevent contamination by incorrect use, admixture or mix-up at the manufacturing processes shown below? a. Line process (including peripherals) b. work-in-progress storage (including the long-term WIP storage area) c. Rework process (ex. a repair	<sample answer (the management method)> (4) - 1: Line process（including peripherals） - The company designates the special line (line designated for the customer of no-restrictions) using "prohibited substance" and put up a sign for identification - Solder irons or cleaning sponges for special use are separated and an identification sticker is pasted on them (4) - 2:WIP storage area (including long-term WIP storage area) - The company allocates a special area to store WIP which is not subject to restrictions of "prohibited substances" and put up a sign for identification - The company keeps a long term WIP in a locked area and specifies a person in charge to handle (4) - 3: Rework process			(4） List the specific management method to prevent contamination by incorrect use, admixture, mix-up for the following manufacturing processes (4) - 1： Line process (including peripherals)						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
52	Process Control	Verification of Implementation	●			process for soldering and not a normal production line) d. production equipment, tools and jigs (if they touch or attach to parts or materials)	- The company designates a special repair line used for non-restriction items of "prohibited substance" (4) - 4：Production equipment, tools and jib (when they touch or attached to parts or materials) - The company segregates specialized production equipment, tools and jib used for no-restrictions of "prohibited substances" and puts a label for identification (sticker) - The company defines the cleaning standards for production equipment, tools and jigs which are used for no-restrictions of "prohibited sustenance" and conducts the management accordingly <note & point of management> - For implementing the effectual management method to prevent contamination by incorrect use or admixture, the management method has to be in such a manner that anyone working in management doesn't make any mistake (ex. labeling, specialization, limiting the person in charge, etc.)			(4) - 2 : WIP storage area (including long-term WIP storage area) (4) - 3 : Rework process (4) - 4 : Production equipment, tools and jigs (if they attach or touch to parts or materials)						
53	Process Control	Verification of Implementation	●			<Actions for prohibited substances> (5) Do you conduct proper management to prevent contamination by incorrect use, admixture and mix-up at the delivery warehouse where products are stored?	<sample answer (the management method)> - to put a sign on products or packaging (label, etc.) for identification and allocate a special storage area <note & point of management> - For implementing the effectual management method to prevent contamination by incorrect use or admixture, the management method has to be in such a manner that anyone working in management doesn't make any mistake (ex. labeling, specialization, limiting the person in charge, etc.)			(5) Explain the specific management method to prevent contamination by incorrect use, admixture and mix-up at "the delivery warehouse where products are stored"						
54	Process Control	Verification of Implementation	●			<Actions for prohibited substances> (6) Do you conduct proper management if there is a possibility of contamination by incorrect use, admixture or mix-up in the process other than (3)-(5) above?				(6) Explain the specific management method when there is a possibility of contamination by incorrect use, admixture and mix-up in the process other than (3)-(5) above?						
55	Process Control	Documentation		●		(7) Do you have any document which defines the procedure to implement (3)-(6) above?	<sample answer> - "Regulations of Process management (Document No. xxxx Revision 01)," Article No xxx : Management of prohibited substances - The procedure of production switching			(7) Enter the name of the document specifying the management procedures of prevention against contamination by incorrect use for the applicable processes. Also state its document no, an article name and revision no.						

4.4.5 Management at Delivery

Before delivering products, the organization shall verify products if they satisfy the management criteria of chemical substances in products for delivery and record the result accordingly. At receiving or during the manufacturing process, the organization shall verify again to ensure that all predetermined check items are completely verified. The organization shall also manage to prevent contamination by any incorrect shipment or mixed-up in the product warehouse.

56	Process Control	Verification or Criteria and Implementation	●			(1) Do you have clear "management criteria of chemical substances in products" for the stage of delivery?	<sample answer> - "Regulations of delivery verification" Article No. xxx : Evaluation of chemical substances in products (the criteria or procedures of delivery inspection, etc.) <note & point of management> In JIS Z 7201 "Management of chemical substances in products - Principles and Guidelines", delivery means shipping or sending products to the customer, but delivery does not include products sent to the next process in the organization			(1) Enter the name of the document which specifies the management criteria of chemical substances in products for the state of delivery						
57	Process Control	Verification of Implementation	●			(2) In the management criteria for the stage of delivery, do you include whether or not the management criteria is satisfied at the stage of receiving and at the manufacturing process respectively?	<sample answer> - The company verifies the identification tag to check if products are manufactured in a specified process using specified materials <note & point of management> - The management criteria for delivery may include not only conducting management in the process, but also quality check at delivery - When the company finds "nonconformity" occurred at any of the processes between receiving and delivery, the company takes an action of "suspension of shipment" - Points of auditing the mixed production system: to pay attention to the solder flow process, inspection at issuing parts or if any check is done at testing, etc.			(2) Explain contents of verification and its method at delivery						
58	Process Control	Record	●			(3) Do you record the verification result show in (2) above?	<sample answer> - Delivery inspection tag - Process travel tag (travel sheet) - Identification tag - Process control record			(3)Enter the name of the record in which the verification result of the above (2) is recorded.						
59	Process Control	Documentation		●		(4) Do you have any document which defines the procedure to implement (1)-(3) shown above?	<sample answer> "Regulations of delivery verification (Document No. xxxx Revision 01)" Article No. xx : Receiving verification, Article No. xx: Process verification, Article No. xx: Evaluation of chemical substances in products			(4) Enter the name of the document which specifies the method of delivery verification. Also state its document no, an article name. revision no.						

4.4.6 Verification of the Management Status of Chemical Substances in Products at Outsourcing Organization

When the organization outsources some processes such as product design and development or manufacturing to another organization, the organization shall verify the management

60	Process Control	Verification of Implementation	●			(1) Do you give instructions to the outsourcing organization in writing about the management items/the management contents of chemical substances in products?	<sample answer> - Production outsourcing agreement <note & point of management> - The company shall give instructions for necessary management items / management details of chemical substances in products to the outsourcing organization, corresponding to the type of outsourcing works - When the company assigns procurement of parts and materials to the outsourcing organization, responsibilities and authorities have to be defined.			(1) Enter the name of the record in which instructions to the outsourcing organizations about the management method of chemical substances in products are recorded.						
61	Process Control	Verification of Implementation	●			(2) Do you verify the implementation status of the instructions which you gave to the outsourcing organization as shown in (1) above?	<sample answer (verification details)> - The outsourcing organization purchases specified parts and materials from the genuine agent and produces under specified process conditions (production process, repair process, inspection process conditions, etc.) <sample answer (verification frequency)> - at least once every 2 years * however, depending on the risk of the outsourcing organizations, verification is done more frequently			(2) Explain the verification details and the frequency of verification						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
62	Process Control	Record	●			(3) Do you record the verification result shown in (2) above?	<sample answer> - List of evaluation results of the outsourcing organizations			(3) Enter the name of the verification record for (2) shown above						
63	Process Control	Documentation		●		(4) Do you have any document which defines the procedure to implement (1)-(3) shown above?	<sample answer> - "Regulations for the management of outsourcing organizations (Document No. xxxx Revision 01)" Article No. xx: Information delivery, Article No. xx : Requirement, Article No. xx: Evaluation			(4) Enter the name of the document specifying the management method of outsourcing organizations for "management of chemical substances in products". Also state its document, an article name, revision no.						

4.4.7 Traceability

The organization shall assure traceability of the information of chemical substances in products by appropriate manners in order to grasp, utilize, disclose and transfer the information of chemical substances in products swiftly.

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
64	Common Management	Verification of Implementation	●			(1) Do you manage in such a manner that you are able to trace from the delivered products about a receiving lot of components /parts/raw materials, manufacturing time, manufacturing process, outsourcing organizations and you are able to grasp, utilize, disclose and transfer the information of chemical substances in products promptly?	<sample answer> A lot number for the product is stated in the identification tag which is attached to a delivery verification sheet. This lot number ensures traceability as it is linked to the process information (including manufacturing process number or manufacturing time) as well as to a lot number of parts and materials input into the product. <note & point of management> - The manufacturing process includes processes of the supplier / the outsourcing organization - The lot number of end products enables to capture a lot number of parts and components used for end-products			(1) Explain the management method how to trace from the delivered products about a receiving lot of parts and component/raw material, manufacturing time, manufacturing place (process) or the outsourcing organization						
65	Common Management	Record	●			(2) Do you make a record in order to manage traceability of the delivered products to identify a receiving lot of parts and components/raw material, manufacturing time, manufacturing process, the outsourcing organizations?	<sample answer> - Parts receiving records - Lot management record - Production record			(2) Explain the name of the record which can specify from delivered products about a receiving lot of parts, components and raw materials, manufacturing time, manufacturing place (process) and the outsourcing organizations						
66	Common Management	Documentation		●		(3) Do you have any document which defines the procedure to implement (1) shown above?	<sample answer> - "Regulations of process management (Document No. xxxx Revision 01)" Article No. xx : Traceability - "Rules of manufacturing control (Document No. xxxx Revision 01)" Article No. xx: Traceability "Operation Procedure"			(3) Enter the name of the document which specifies the procedure for traceability. Also state its document no, an article name and revision no.						

4.4.8 Exchange of information with the customer

The organization shall clearly define and implement the effective method of exchanging information with the customer for the following matters, and record details of such information exchange.
a) Laws, regulations and the industry criteria that are required by the customer to comply
b) Information of chemical substances in products
c) information on the management of chemical substances in products

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
67	Common Management	Verification of Implementation	●			(1) Do you have and also implement any efficient and effective method of exchanging information with the customer and the supplier as well as asking for investigation and collecting information from them for a)～c) shown below? a) law, regulations and the industry criteria which needs to be complied by the customer or the supplier b) information of chemical substances in products c) information about management of chemical substances in products	<sample answer> a) Laws, regulations and the industry criteria which needs to be complied by the customer: [When the company receives new requirement criteria from the customer, the company examines them immediately, lay down the system to support new requirements in "the regulations of external communication "and implement it accordingly] b) Information of chemical substances in products: [The company establishes and implements the system as provided in "the regulations of the external communication" which specifies to investigate prior to the survey request for the purpose of quick investigation and reply for the information of chemical substances in products] c) Information about management of chemical substances in products : [The company defines and implements the system as provided in "the regulations of external communication" which enables to make a quick response to evaluation on the management of chemical substances in products by the customer] <note & point of management> - The effective method of information exchange means that the effective system has been established in order to give a quick response to enquiries or evaluations			(1) Explain the method which enables to exchange information effectively with the customer or the supplier for the following a)～c) a) Laws, regulations and the industry criteria to which the customer is required to comply : [b) Information of chemical substances in products : [c) Information about management of chemical substances in products [						
68	Common Management	Record	●			(2) Do you record the details of (1) above?	<sample answer> a) Laws, regulations and the industry criteria which needs to be complied by the customer: [Receiving verification record - the customer's Green procurement criteria, etc.] b) Information of chemical substances in products: [Survey response record for information of chemical substances in products] c) Information about management of chemical substances in products: [Record of response for the evaluation on management of chemical substances in products by the customer]			(2) Enter the name of evidence record a) Laws, regulations and the industry criteria which needs to be compiled by the customer : [b) Information of chemical substances in products : [c) Information about management of chemical substances in products : [						
69	Management	Implementation		●		(3) If the customer requests, do you submit the evidence for "non-inclusion of prohibited substances" as specified in the management criteria of chemical substances in products to the customer ?	<sample answer> In which case? : [upon the customer's request for recycled resin] Evidence : [Measurement data of prohibited substances or the certificate of no-use issued by the material manufacturer			(3) If you submit the evidence about prohibited substances to the customer, explain for which case and what type of evidence you submit to the customer						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

No	Action Details: Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
	Common M	Verification of								In which case : [Evidence : [						
70	Common Management	Documentation		●		(4) Do you have any document which defines the procedure to implement (1)-(3) shown above?	<sample answer> "Regulations of external communication" Document No. xxxx Revision 01			(4) Enter the name of the document which specifies information communication to the customer. Also state its document no, an article name and revision no.						

4.4.9 Change management

The organization shall extract changeable elements which may affect declarable chemical substances under the management criteria of chemical substances in products. When any change arises, before the actual change is taken place, the organization shall effectually confirm a change to be made to the information of chemical substances in products and verify if the management criteria of chemical substances in products can still be fulfilled. The organization shall document the procedures of change management and record the result of

No	Main Classification	Sub-Classification	Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
71	Common Management	Verification of Implementation		●		(1) Have you defined items subject to change management?	<sample answer> The followings are applicable to change management in the organization internally, at the supplier and at the outsourcing organizations - supplier, outsourcing organization - parts, material - process (production equipment, manufacturing condition, mold/die, tools and jigs, etc.) <note & point of management> - 4 elements of production that are "Man", "Machine", "Material" and "Method" are included in change management - Not only changes in the organization internally, but also any change taken place in the supplier or the outsourcing organization should be subject to change management			(1) List the items which are subject to change management						
72	Common Management	Verification of Implementation		●		(2) If some change is going to be made to an item subject to change management internally in the organization as shown in (1), do you verify whether or not a change can conform to the management criteria of chemical substances in products prior to a change taken place?	<sample answer> The company verifies the following - Verification details for the supplier or the outsourcing organization : if the supplier or the outsourcing organization has and operates the management system of chemical substances in products which can satisfy the management criteria of chemical substances in products - Verification details about parts and materials: if parts or materials satisfy the purchase management criteria - Verification details about process (production equipment, manufacturing condition, mold/die, tool and jig, etc.): if the process satisfies the management criteria of chemical substances in product for the stage of manufacturing			(2) If any change arises to an item subject to change management in the organization internally as shown in (1), explain about verification details to identify the conformance status with the management criteria of chemical substances in product prior to a change taken place						
73	Common Management	Verification of Implementation		●		(3) If some change is going to be made to an item subject to change management in the supplier / in the outsourcing organization as in (1) above, do you verify whether or not a change can conform to the management criteria of chemical substances in products prior to a change taken place?	<sample answer> The company verifies as shown below - Verification details for the supplier or the outsourcing organization: if the supplier or the outsourcing organization has and implements the management system of chemical substances in products which can satisfy the management criteria of chemical substances in products - Verification details about parts and materials: if parts or materials satisfy the purchase management criteria * measurement data if necessary <note & point of management> - The procedures of change management shall be disseminated to the suppliers (including 2nd, 3rd tier, and lower tier supplier...)			(3) If any change arises to an item subject to change management in the supplier or in the outsourcing organization as in (1), explain about verification details to identify the conformance status with the management criteria of chemical substances in products prior to a change taken place						
74	Common Management	Verification of Implementation		●		(4) If any change arises to an item subject to change management in the organization internally / at the supplier/ the outsourcing organization as in (1) above, do you report about it to the customer before a change is made?	<sample answer> - The company has and operates the system to notify a change (supplier, material, process, etc.) and the conformance status with the management criteria of chemical substances in products to the customer prior to a change taken place. <note & point of management> - It is important that a change should be made after communicating with the customer - It is important to report to the customer about the conformance status to the management criteria of chemical substances in products, no matter how the outcome is			(4) If any change arises to an item subject to change management in the organization internally, at the supplier / the outsourcing organization as in (1), explain about the reporting method to the customer before a change takes place						
75	Common Management	Record		●		(5) Do you record the verification result when a change is made as in (2)-(4) above?	<sample answer> In-house:[xxx Co. Ltd. Application of process change (in-house use)] Supplier/Outsourcing organization : [xxx Co. Ltd. Application of process change (for supplier use)] Customer : [Application of process change (Use the format specified by the customer)]			(5) Enter the name of the document which records the result of (2)～(4) above In-house : [Supplier/Outsourcing organization : [Customer : [						
76	Common Management	Documentation		●		(6) Do you have any document which defines the procedure to implement (1)-(5) above?	<sample answer> - "Regulations of change management (Document No. xxxx Revision 01)" Article No.xx: Application of change, Article no. xx: Customer's approval - The procedure to verify no inclusion of prohibited substances <note & point of management> - The company shall specify the contact flow among supplier / outsourcing organization / customer			(6)Enter the name of the document which specifies about change management. Also state its document no, an article name, revision no.						

4.4.10 Management of Chemical Substance in Product at Occurrence of Nonconformity

The organization shall develop and document the method of in-house contacts, the method of contacting suppliers, outsourcing organizations and customers as well as the temporary corrective actions, in order to respond to any nonconformity arising relating to chemical substances in products. After the temporary measure is taken, the organization shall investigate and identify the cause, determine and implement the necessary countermeasures to prevent recurrence of nonconformity. The organization shall take the preventive measures to avoid any occurrence of nonconformity. The organization shall record the responses taken at nonconformity.

						(1) Do you have clarified procedures for the following in case of occurrence of nonconformance to chemical	<sample answer> Contacting procedure from the supplier / the outsourcing organization:[In case any nonconformance occurred in the supplier or in the outsourcing organization, the company			(1) Enter the procedure for the following when nonconformance item is found						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Step 2	* marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	Score	Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
77	Common Management	Verification of Implementation	●			substances in products (hereinafter called "non-conformance item") ? - Contacting procedure from the supplier/the outsourcing organization - In-house contacting procedure and the procedures of deciding measures - Reporting procedure to the customer	instructs to contact the purchasing department immediately] In-house contacting procedure and the procedure of deciding measures :[The department which found nonconformance shall contact the quality control department immediately using the contact card. Quality control department shall call all related departments for a meeting and discuss measures corresponding to the critical level of nonconformance] Contacting procedures to the customer:[In case of occurrence of nonconformance, the company shall contact the customer immediately and keep the customer updated about the measures] <note & point of management> - The company shall clarify the definition of "nonconformance" to the supplier and the outsourcing organizations - The company defines the critical level of nonconformance of products and specifies actions corresponding to the level			Contacting procedure from the supplier/the outsourcing organization : [In-house contacting procedure and the procedures to decide measures : [Reporting procedure to the customer : [						
78	Common Management	Verification of Implementation	●			(2) Do you have clear procedures requesting the supplier/the outsourcing organization to inform swiftly about nonconformance occurred at the supplier/the outsourcing organization?	<sample answer> Requesting document : [Green procurement criteria] Requesting contents: [When the supplier / the outsourcing organization finds that products to be delivered do not conform to the company's management criteria of chemical substances in products, the supplier/outsourcing organization shall inform the company immediately] <note & point of management> - The company shall set a reporting period in advance for the supplier/the outsourcing organization to inform to the company (to the customer) or request the supplier/the outsourcing organization to report immediately when nonconformance is found			(2) Enter the name of the document in which the company requests the supplier/the outsourcing organization to report immediately about nonconformance. Also explain about details of the request Requesting document : [Requesting details : [						
79	Common Management	Verification of Implementation	●			(3) Do you have clarified procedures to prevent expansion of nonconformance by taking a temporary action at occurrence of nonconformance?	<sample answer (temporary action)> The manufacturing department shall take the following actions as a temporary measure - To identify the influenced area (to identify a first nonconformance lot or equipment of causing non-conformance) - To prevent expansion (suspension of production, suspension of delivery, isolation) - Identification management (isolating nonconformance items from conformance items or put an identification sign) <note & point of management> - It is important to identify the influenced area, to prevent expansion or to manage by identifying nonconformance from conformance items			(3) Explain action details specifying prevention of expansion at occurrence of nonconformance						
80	Common Management	Verification of Implementation	●			(4) Do you have clarified procedures to investigate the cause and/or to take actions and preventive measures?	<sample answer> - The manufacturing department has specified to investigate a cause and to take actions and preventive measures and to report them in "Product-Nonconformance contact card /report" to the quality assurance department <note & point of management> - The company has established the procedure to take corrective actions against the cause of nonconformance or the preventive measures of recurrence such as revising the criteria			(4) Explain about the contents specifying a cause investigation, countermeasure and preventive measures						
81	Common Management	Verification of Implementation	●			(5) Do you have specified procedures to apply the preventive measures of recurrence extensively?	<sample answer> - Quality assurance department shall examine the preventive measures of recurrence and decide whether or not the measures should be implemented extensively based on collected "Product-nonconformance contact card / report"			(5) Explain about the contents specifying the extensive implementation of preventive measures of recurrence						
82	Common Management	Verification of Implementation	●			(6) Do you have any specified procedures to record actions taken at nonconformance?	<sample answer> - Contact card - Product nonconformance problem			(6) Enter the name of the document in which actions are recorded at occurrence of nonconformance						
83	Common Management	Documentation	●			(7) Do you have a document which defines the procedure to implement (1)-(6) shown above?	<sample answer> - "Regulations of measures against nonconformance (Document No. xxxx Revision 01)" Article no. xx : Actions against nonconformance products Article no. xx : Isolation of nonconformance products Article no. xx : Corrective actions, extensive implementation Article no. xx: Retention of record			(7) Enter the name of the document which specifies actions to be taken at nonconformance for chemical substances in products. Also state its document no., an article name, revision no.						

4.5 Management of Human Resources, Document and Information :

This check sheet is compliant to JIS Z 7201:2012 "Management of Chemical Substances in Products - Principles and Guidelines", however "4.5 Management of Human Resources, Document and Information" is only a title without specific details. Therefore, no question is given under 4.5

4.5.1 Education and Training

The organization shall develop the contents of each management and operation module that are necessary to train and educate for management of chemical substances in products.
The organization shall identify works and personnel to be engaged in management of chemical substances in products, and conduct the necessary training and education, and record accordingly.

						(1)Do you specify targeted staffs required for training as well as the contents of education/training for each	<sample answer> Target staff (1): [person in charge of material, person in charge of manufacturing] Contents of training (1): [Identification management at			(1) List the staffs required for education and contents of training						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
84	Common Management	Documentation	●			operation and management module?	Contents of training (1): [identification management at parallel production (storage, production switching, cleaning, etc.)] Target staff (2): [person in charge of judging inspection data/input data] Contents of training (2): [Specialized training of chemical management / the management criteria of chemical substances in products (latest version)"] <note & point of management> - Operation and Management refers to "4.4.2 Management of chemical substances in product at design and development"-"4.4.10 Management of chemical substances in products at occurrence of nonconformity"			target staff (1): [contents of training (1): [target staff (2): [contents of training(2): [target staff (3): [contents of training(3): [						
85	Common Management	Record	●			(2) Do you conduct education and training as shown in (1) above and record it accordingly?	<sample answer> - Training record - "Chemical substances in products - survey / judging staff training"			(2) Enter the name of the document which contains a record of education and training						
86	Common Management	Documentation		●		(3) Do you have a document which specifies the procedure to implement (1)-(2) above?	<sample answer> - "Regulations of management of chemical substances in products (Document No. xxxx Revision 01)" Article no. xx : Education and training			(3) Enter the name of the document which specifies educations for management of chemical substances in products. Also state its document no. an article name, revision no.						

4.5.2 Management of document and record

The organization shall manage the documents including "the procedures required to be documented" and the records as required in the action items of the Guidelines as well as the procedures and the records which are determined by the organization as necessary.

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
87	Common Management	Verification of Implementation	●			(1) Do you manage the documents for management of chemical substances in products (documents verified in this check sheet)?	<sample answer> - "XX Co. Ltd, The system diagram for documents of chemical substances in products" - "XX Co. Ltd. List of documents related to chemical substances in products" <note & point of management> - It is recommended to manage the documents systematically using a list of document or a system diagram of document, etc. - in the document system, the revision history of each document shall be specified - Documentation on management of chemical substances in products should be kept in the environment where authorized persons are able to view and verify the latest version, and documentation should be reviewed whenever necessary			(1) Enter the name of the record which shows the document system for management of chemical substances in products (documents verified in this check sheet)						
88	Common Management	Record		●		(2) Do you keep the operation records relating to management of chemical substances in products?	<sample answer> - Product assessment report (retention period xx years) - Evaluation List of the suppliers (retention period xx years) - Evaluation list of the outsourcing organizations (retention period xx years) - Receiving inspection performance sheet (retention period xx years) - Test piece analysis report (retention period xx years) - Identification tag (retention period xx years) - Lot management record (retention period xx years) - Receiving verification record of the customer's green procurement criteria, etc. (retention period xx years) - Survey response record for information of chemical substances in products (retention period xx year) - Response record of the evaluation by the customer concerning management of chemical substances in products (retention period xx years) - Application for process change (retention period xx years) - Chemical substances in products - survey and judging staff training (retention period xx years) - Internal audit report (retention period xx years) - Management review report (retention period xx years) <note & point of management> - Operation record means a verification record for respective items - The company shall set a retention period for each operation record and manage it accordingly - If a retention period is regulated by the law or as the customer's requirement, the company shall set a retention			(2) List the name of the record kept by the company and its retention period respectively. * If the space is not enough to list all the records in this cell, the existing record (such as a management list of records, etc.) can be alternatively used						
89	Common Management	Documentation		●		(3) Do you have any document which defines the procedure to implement (1)-(2) shown above?	<sample answer> - "Regulations of environmental documentation management (Document No. xxx Revision 01)"			(3) Enter the name of the document specifying management of documents and records. Also state its document no., an article name and revision no.						

4.6 Evaluation and Improvement of Implementation Status

The organization shall evaluate the management status of chemical substances in products periodically at a predetermined frequency. The organization shall implement corrective actions to matters which require correction. The organization shall record the result of evaluation and the corrective actions and report it to top managers of the management of chemical substances in products. The top management in chemical substances in products shall review the result of evaluation and the corrective actions.

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
90	Common Management	Verification of Implementation	●			(1) Do you evaluate the management status of chemical substances in products periodically at predetermined frequency?	<sample answer> Verification frequency : [once a year] Verification method : [Internal audit for management of chemical substances in products]			(1) Enter the verification frequency of management of chemical substances in products and its verification method Verification frequency : [Verification method : [Verification details : [						
91	Common Management	Verification of Implementation	●			(2) Do you take necessary corrective actions?	<sample answer> - Corrective action report			(2) Enter the name of the record which shows implementation of necessary corrective actions						

Action Items (extract from Guidelines for the Management of Chemical Substances in Products, Ver.3.0)

Action Details

No	Main Classification	Sub-Classification	Question Flag: Step 1	Question Flag: Step 2	Question Flag: * marked by	Questions	Sample Answer / Note & Point of Management	by Self-Evaluating Organization: Self-Evaluation Result	by Self-Evaluating Organization: Score	by Self-Evaluating Organization: Answer (Implementation details, Evidence name, etc.)	by Evaluation-Result Verifying Organization: Judging Result	by Evaluation-Result Verifying Organization: Judgment reason, memo, remarks, etc.	Score	Improvement program	Evaluation after improvement program	Score after improvement program
92	Common Management	Record	●			(3) Do you record the evaluation result and the result of corrective actions?	<sample answer> - Internal audit report <note & point of management> If the company incorporates internal audit into ISO9001, ISO14001 or others, it is advisable that internal audit reports specifies "the scope of audit" in the report to indicate that auditing is also conducted for chemical substances in products			(3) Enter the name of the record which shows the evaluation result or the result of corrective actions						
93	Common Management	Verification of Implementation	●			(4) Do you report the evaluation result and the result of corrective actions to the top managers concerning management of chemical substances in products? Is the review conducted based on the above report?	<sample answer> - Management review report <note & point of management> If the company incorporates internal audit into ISO9001, ISO14001 or others, it is advisable that internal audit reports specifies "the scope of audit" in the report to indicate that auditing is also conducted for chemical substances in products			(4) Enter the name of the record which shows the result of review by the top management concerning management of chemical substances in products.						
94	Common Management	Documentation		●		(5) Do you have any document which defines the procedure to implement (1)-(4) shown above?	<sample answer> - "Regulations for management of chemical substances in products (Document No. xxxx Revision 01)" Article no. xx: Management review			(5) Enter the name of the document specifying evaluation of the implementation status and implementation of improvement. Also state its document no, an article name and revision no.						

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	Self-Evaluation Result 100 point full marks conversion value	Point	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	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	phthalic esters	Electric	Automotive
33	perfluorooctane sulfonate and its related substances	Electric	Automotive
34	polycyclic aromatic hydrocarbons and its mixtures	Electric	Automotive
35	cobalt and its compounds	Electric	Automotive
36	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenzene, 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	Electric	Automotive
37	pitch, coal tar, high temp.	Electric	Automotive
38	mineral fibres (natural or synthetic) except continuous filament fibres	Electric	Automotive
39	2,4-dinitrotoluene	Electric	Automotive

	Environmentally hazardous substances	Scope applicable	
40	biocidal coatings / biocidal additives	Electric	Automotive
41	acrylamide	Electric	Automotive
42	boric acid	Electric	Automotive
43	disodium tetraborate, anhydrous	Electric	Automotive
44	tetraboron disodium heptaoxide hydrate	Electric	Automotive
45	volatile organic compounds	Electric	Automotive
46	hydrazine	Electric	Automotive
47	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Electric	Automotive
48	formaldehyde, oligomeric reaction products with aniline	Electric	Automotive
49	4-(1,1,3,3-tetramethylbutyl)phenol	Electric	Automotive
50	N,N-dimethylacetamide	Electric	Automotive
51	phenolphthalein	Electric	Automotive
52	hexachlorobenzene	Electric	Automotive
53	chlorinated or brominated dioxins or furans	Electric	Automotive
54	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Electric	Automotive
55	4-nitrobiphenyl and its salts	Electric	Automotive
56	n-nitrosamines	Electric	Automotive
57	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Electric	Automotive
58	vinyl chloride monomer	Electric	Automotive
59	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Electric	Automotive
60	chlorinated flame retardants	Electric	Automotive
61	specified organic pigment	Electric	Automotive
62	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	Electric	Automotive
63	Diboron trioxide	Electric	Automotive
64	formamide	Electric	Automotive
65	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	Electric	Automotive
66	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	Electric	Automotive
67	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	Electric	Automotive
68	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	Electric	Automotive
69	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. basic blue 26)	Electric	Automotive
70	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	Electric	Automotive
71	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	Electric	Automotive
72	pentacosafluorotridecanoic acid	Electric	Automotive
73	tricosafluorododecanoic acid	Electric	Automotive
74	henicosafluoroundecanoic acid	Electric	Automotive
75	heptacosafluorotetradecanoic acid	Electric	Automotive
76	diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	Electric	Automotive
77	cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	Electric	Automotive

	Environmentally hazardous substances	Scope applicable	
78	hexahydromethylphathalic anhydride, hexahydro-4-methylphathalic anhydride, hexahydro-1-methylphathalic anhydride, hexahydro-3-methylphathalic anhydride	Electric	Automotive
79	4-nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	Electric	Automotive
80	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	Electric	Automotive
81	methoxyacetic acid	Electric	Automotive
82	methyloxirane (propylene oxide)	Electric	Automotive
83	1,2-benzenedicarboxylic acid, dipentylester, branched and linear	Electric	Automotive
84	1,2-diethoxyethane	Electric	Automotive
85	furan	Electric	Automotive
86	diethyl sulphate	Electric	Automotive
87	dimethyl sulphate	Electric	Automotive
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Electric	Automotive
89	dinoseb (6-sec-butyl-2,4-dinitrophenol)	Electric	Automotive
90	acetamide, n-methyl-	Electric	Automotive
91	dimethylformamide (N,N-dimethylformamide)	Electric	Automotive
92	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Electric	Automotive
93	PFOA and its salts, perfluorooctanoic acids C8F15O2X (X = H, NH4, and metal salts)	Electric	Automotive
94	phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	Electric	Automotive
95	ammonium perchlorate	Electric	Automotive
96	nonylphenol ethoxylates	Electric	Automotive
97	perchlorates	Electric	Automotive
98	imidazolidine-2-thione; 2-imidazoline-2-thiol	Electric	Automotive
99	acetamide	--	Automotive
100	acetonitrile	--	Automotive
101	acrylonitrile	--	Automotive
102	aniline and its salts	--	Automotive
103	aromatic amines	--	Automotive
104	barium compounds (organic or water soluble)	--	Automotive
105	benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	--	Automotive
106	1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	--	Automotive
107	2-benzothiazolesulphenamide, N, N-dicyclohexyl-	--	Automotive
108	butadiene, 1,3 -	--	Automotive
109	colophony (rosin)	--	Automotive
110	copper	--	Automotive
111	cyclohexane	--	Automotive
112	cyclotetrasiloxane, heptamethylphenyl-	--	Automotive

	Environmentally hazardous substances	Scope applicable	
113	cyclotetrasiloxane, octamethyl-	--	Automotive
114	decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	--	Automotive
115	epichlorohydrin (1-chloro-2,3-epoxypropane)	--	Automotive
116	fatty acids, C6-19-branched, zinc salts	--	Automotive
117	fluorotelomers	--	Automotive
118	hexanedioic acid, bis(2-ethylhexyl) ester	--	Automotive
119	methylacrylamidomethoxy-acetate	--	Automotive
120	2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	--	Automotive
121	nitrites	--	Automotive
122	nitrocellulose	--	Automotive
123	nonylphenol	--	Automotive
124	7-oxa-3,20-diazadispiro[5.1.11.2]-heneicosan-21-one, 2,2,4,4-tetramethyl-	--	Automotive
125	phenol	--	Automotive
126	phenol, 2,4,6-tris(1,1-dimethylethyl)-	--	Automotive
127	phenylendiamines and its salts	--	Automotive
128	polyamine curing agents	--	Automotive
129	silica, crystalline	--	Automotive
130	siloxanes and silicones	--	Automotive
131	sodium azide	--	Automotive
132	vinyl benzenee	--	Automotive
133	styrene oxide (epoxy styrene)	--	Automotive
134	thallium and its compounds	--	Automotive
135	thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-	--	Automotive
136	vanadium(V) oxide	--	Automotive
137	1,4 benzenediol (hydroquinone)	--	Automotive
138	2-propanone, reaction products with diphenylamine (PRDPOD)	--	Automotive

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

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
1	ozone depleting substances	Chemically formed	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	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).
			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	Prohibited	1000ppm	Applies to all applications.
		Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
4	glycol ether and its acetates	Chemically formed	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table3.
			Controlled	unintended inclusion 1000ppm	All applications excepting above.
		Article	Controlled	unintended inclusion 1000ppm	To be confined to the substances proven to have reproductive toxicant as in Table-3 “Glycol ether and its acetates with regards to proven reproductive toxicant” as well as EGDME (ethylene glycol dimethyl ether or 1,2-dimethoxyethane) All the applications.
5	organic brominated solvents	Chemically formed	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table4.
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting above.
6	benzene	Chemically formed	Prohibited	10000ppm	Liquid chemically formed product.
		Article	Prohibited	100ppm	Liquid chemically formed product. All applications excepting fuel constituent.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
7	aldehyde compounds	Chemically formed	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.
			Controlled	unintended inclusion 1000ppm	Applies to all applications. Emitted substance from polymer components（Molding resin material, Principal ingredient of adhesive, etc.）
8	organic chlorinated solvents	Chemically formed	Prohibited	1000ppm	Applies to all applications.
		Article	Prohibited	1000ppm	carbon tetrachloride, and 1,1,1-trichloroethane Applies to all applications.
			Controlled	unintended inclusion 1000ppm	excepting carbon tetrachloride, and 1,1,1-trichloroethane. Applies to all applications.
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	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
12	hexavalent chromium compounds	Article	Prohibited	1000ppm	Applies to all applications.
13	lead, mercury, cadmiun, and hexavalent chromium in wrapping material	Article	Prohibited	Sum of Pb, Cd, Hg, Cr (VI): 100 ppm or less. However, cadmium in plastics: less than 5 ppm	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.
			Controlled	unintended inclusion 1000ppm	Applies to beryllium copper with less than 3% beryllium
16	asbestos	Article	Prohibited	1000ppm	Applies to all applications.
17	brominated flame retardants	Article	Prohibited	1000ppm	All applications. Refer to Table10.
			Controlled	unintended inclusion 1000ppm	Exclude substances in table 10. Applies to all applications.
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.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
20	chlorinated paraffins	Chemically formed	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.
23	xylene	Chemically formed	Controlled	unintended inclusion 1000ppm	Applies to all applications.
24	toluene	Chemically formed	Controlled	unintended inclusion 1000ppm	Applies to all applications.
25	antimony and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
26	chromium and its compounds (except hexavalent chromium compounds)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
27	selenium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
28	nickel and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
29	arsenic and its compounds	Article	Prohibited	-	"arsenic acid, lead (4+) salt" applies to the lead compound
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting "arsenic acid, lead (4+) salt".
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.
32	phthalic esters	Article	Prohibited	1000ppm	Specified phthalic esters (groups Ⅰ & Ⅱ) listed in the table 6 must not be used for plastic material whose applications are toys and nursery products.
			Prohibited	One phthalate or sum of four phthalates : less than 1000ppm	Specified phthalic esters (Danish regulation) listed in the table6 must not be used One phthalate or sum of four phthalates : less than 1000ppm
			Controlled	unintended inclusion 1000ppm	Applies to all applications other than those outlined above and the phtalic esters not specified in table6.
33	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 .
34	polycyclic aromatic hydrocarbons and its mixtures	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
35	cobalt and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
36	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.
37	pitch, coal tar, high temp.	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
38	mineral fibres (natural or synthetic) except continuous filament fibres	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
39	2,4-dinitrotoluene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
40	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.
41	acrylamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
42	boric acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
43	tetraboron disodium heptaoxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
44	tetraboron disodium heptaoxide hydrate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
45	volatile organic compounds	Chemically formed	Prohibited	1000ppm	With regards to dichloromethane, trichloroethylene, and chloroform, applies to all applications.
			Controlled	unintended inclusion 1000ppm	Aplies to all applications
46	hydrazine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
47	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
48	formaldehyde, oligomeric reaction products with aniline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
49	4-(1,1,3,3-tetramethylbutyl)phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
50	N,N-dimethylacetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
51	phenolphthalein	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
52	hexachlorobenzene	Article	Prohibited	unintended inclusion	Applies to all applications.
53	chlorinated or brominated dioxins or furans	Article	Prohibited	10ppb	Applies to all applications.
54	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Article	Prohibited	1000ppm	Applies to all applications.
55	4-nitrobiphenyl and its salts	Article	Prohibited	100ppm	Applies to all applications.
56	n-nitrosamines	Article	Prohibited	unintended inclusion	It is limited to the substances, N-nitroso dimethyl amine(CAS No: 62-75-9) Applies to all applications.
57	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Article	Prohibited	1000ppm	Applies to all applications.
58	vinyl chloride monomer	Article	Prohibited	5ppm	Applies to all applications.
59	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Article	Controlled	1000ppm	Applies to all applications.
60	chlorinated flame retardants	Article	Controlled	1000ppm	Applies to all applications.
61	specified organic pigment	Chemically formed	Prohibited	unintended inclusion	The organic pigment including PCB above 50ppm. Applies to all applications.
62	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
63	diboron trioxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
64	formamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
65	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
66	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
67	4,4'-bis(dimethylamino)benzophenone (michler's ketone)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
68	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
69	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. basic blue 26)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
70	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
71	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
72	pentacosafluorotridecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
73	tricosafluorododecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
74	henicosafluoroundecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
75	heptacosafluorotetradecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
76	diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
77	cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
78	hexahydromethylphathalic anhydride, hexahydro-4-methylphathalic anhydride, hexahydro-1-methylphathalic anhydride, hexahydro-3-methylphathalic anhydride	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
79	4-nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
80	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
81	methoxyacetic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
82	methyloxirane (propylene oxide)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
83	1,2-benzenedicarboxylic acid, dipentylester, branched and linear	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
84	1,2-diethoxyethane	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
85	furan	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
86	diethyl sulphate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
87	dimethyl sulphate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
89	dinoseb (6-sec-butyl-2,4-dinitrophenol)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
90	acetamide, n-methyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
91	dimethylformamide (N,N-dimethylformamide)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
92	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
93	PFOA and its salts, perfluorooctanoic acids C8F15O2X (X = H, NH4, and metal salts))	Article	Prohibited	unintended inclusion 1000ppm	Applies to all applications.
94	phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
95	ammonium perchlorate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
96	nonylphenol ethoxylates	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
97	perchlorates	Article	Prohibited	-	The following three substances apply to the lead compound and the mercuric compound respectively. -lead perchlorate(CAS 13637-76-8), -perchloric acid, reaction products with lead oxide (pbo) and triethanolamine, perchloric acid(CAS 99749-31-2), -mercury(2+) salt(CAS 7616-83-3), Applies to all applications.
			Controlled	unintended inclusion 1000ppm	Applies to all applications.
98	imidazolidine-2-thione; 2-imidazoline-2-thiol	Article	Controlled	unintended inclusion 1000ppm	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	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	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).
			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	Prohibited	1000ppm	Applies to all applications.
		Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
4	glycol ether and its acetates	Chemically formed	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table3.
			Controlled	unintended inclusion 1000ppm	All applications excepting above.
		Article	Controlled	unintended inclusion 1000ppm	To be confined to the substances proven to have reproductive toxicant as in Table-3 “Glycol ether and its acetates with regards to proven reproductive toxicant” as well as EGDME (ethylene glycol dimethyl ether or 1,2-dimethoxyethane) All the applications.
5	organic brominated solvents	Chemically formed	Prohibited	1000ppm	With regards to proven reproductive toxicant. Refer to Table4.
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting above.
6	benzene	Chemically formed	Prohibited	10000ppm	Liquid chemically formed product.
		Article	Prohibited	100ppm	Liquid chemically formed product. All applications excepting fuel constituent.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
7	aldehyde compounds	Chemically formed	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.
			Controlled	unintended inclusion 1000ppm	Applies to all applications. Emitted substance from polymer components（Molding resin material, Principal ingredient of adhesive, etc.）
8	organic chlorinated solvents	Chemically formed	Prohibited	1000ppm	Applies to all applications.
		Article	Prohibited	1000ppm	carbon tetrachloride, and 1,1,1-trichloroethane Applies to all applications.
			Controlled	unintended inclusion 1000ppm	excepting carbon tetrachloride, and 1,1,1-trichloroethane. Applies to all applications.
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	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
12	hexavalent chromium compounds	Article	Prohibited	1000ppm	Applies to all applications.
13	lead, mercury, cadmiun, and hexavalent chromium in wrapping material	Article	Prohibited	Sum of Pb, Cd, Hg, Cr (VI): 100 ppm or less. However, cadmium in plastics: less than 5 ppm	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.
			Controlled	unintended inclusion 1000ppm	Applies to beryllium copper with less than 3% beryllium
16	asbestos	Article	Prohibited	1000ppm	Applies to all applications.
17	brominated flame retardants	Article	Prohibited	1000ppm	All applications. Refer to Table10.
			Controlled	unintended inclusion 1000ppm	Exclude substances in table 10. Applies to all applications.
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.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
20	chlorinated paraffins	Chemically formed	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.
23	xylene	Chemically formed	Controlled	unintended inclusion 1000ppm	Applies to all applications.
24	toluene	Chemically formed	Controlled	unintended inclusion 1000ppm	Applies to all applications.
25	antimony and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
26	chromium and its compounds (except hexavalent chromium compounds)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
27	selenium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
28	nickel and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
29	arsenic and its compounds	Article	Prohibited	-	"arsenic acid, lead (4+) salt" applies to the lead compound
			Controlled	unintended inclusion 1000ppm	Applies to all applications excepting "arsenic acid, lead (4+) salt".
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.
32	phthalic esters	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
33	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 .
34	polycyclic aromatic hydrocarbons and its mixtures	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
35	cobalt and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
36	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.
37	pitch, coal tar, high temp.	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
38	mineral fibres (natural or synthetic) except continuous filament fibres	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
39	2,4-dinitrotoluene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
40	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.
41	acrylamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
42	boric acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
43	tetraboron disodium heptaoxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
44	tetraboron disodium heptaoxide hydrate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
45	volatile organic compounds	Chemically formed	Prohibited	1000ppm	With regards to dichloromethane, trichloroethylene, and chloroform, applies to all applications.
			Controlled	unintended inclusion 1000ppm	Aplies to all applications
46	hydrazine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
47	1-methylpyrrolidin-2-one(2-pyrrolidinone, 1-methyl)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
48	formaldehyde, oligomeric reaction products with aniline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
49	4-(1,1,3,3-tetramethylbutyl)phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
50	N,N-dimethylacetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
51	phenolphthalein	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
52	hexachlorobenzene	Article	Prohibited	unintended inclusion	Applies to all applications.
53	chlorinated or brominated dioxins or furans	Article	Prohibited	10ppb	Applies to all applications.
54	dodecachloropentacyclo 1, 3, 4-metheno-1H-cyclobuta(cd)pentalene, mirex	Article	Prohibited	1000ppm	Applies to all applications.
55	4-nitrobiphenyl and its salts	Article	Prohibited	100ppm	Applies to all applications.
56	n-nitrosamines	Article	Prohibited	unintended inclusion	It is limited to the substances, N-nitroso dimethyl amine (CAS No:62-75-9). Applies to all applications.
			Controlled	unintended inclusion 1000ppm	Applies to all applications except for N-nitroso dimethyl amine.
57	phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethlethyl)-	Article	Prohibited	1000ppm	Applies to all applications.
58	vinyl chloride monomer	Article	Prohibited	5ppm	Applies to all applications.
59	([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride)	Article	Controlled	1000ppm	Applies to all applications.
60	chlorinated flame retardants	Article	Controlled	1000ppm	Applies to all applications.
61	specified organic pigment	Chemically formed	Prohibited	unintended inclusion	The organic pigment including PCB above 50ppm. Applies to all applications.
62	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
63	diboron trioxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
64	formamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
65	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
66	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
67	4,4'-bis(dimethylamino)benzophenone (michler's ketone)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
68	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
69	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. basic blue 26)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
70	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
71	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
72	pentacosafluorotridecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
73	tricosafluorododecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
74	henicosafluoroundecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
75	heptacosafluorotetradecanoic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
76	diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
77	cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
78	hexahydromethylphathalic anhydride, hexahydro-4-methylphathalic anhydride, hexahydro-1-methylphathalic anhydride, hexahydro-3-methylphathalic anhydride	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
79	4-nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
80	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
81	methoxyacetic acid	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
82	methyloxirane (propylene oxide)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
83	1,2-benzenedicarboxylic acid, dipentylester, branched and linear	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
84	1,2-diethoxyethane	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
85	furan	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
86	diethyl sulphate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
87	dimethyl sulphate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
88	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
89	dinoseb (6-sec-butyl-2,4-dinitrophenol)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
90	acetamide, n-methyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
91	dimethylformamide (N,N-dimethylformamide)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
92	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
93	PFOA and its salts, perfluorooctanoic acids C8F15O2X (X = H, NH4, and metal salts)	Article	Prohibited	unintended inclusion 1000ppm	Applies to all applications.
94	phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
95	ammonium perchlorate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
96	nonylphenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
97	perchlorates	Article	Prohibited	-	The following three substances apply to the lead compound and the mercuric compound respectively. -lead perchlorate(CAS 13637-76-8), -perchloric acid, reaction products with lead oxide (pbo) and triethanolamine, perchloric acid(CAS 99749-31-2), -mercury(2+) salt(CAS 7616-83-3), Applies to all applications.
			Controlled	unintended inclusion 1000ppm	Applies to all applications.excepting above three substance.. Explosive, Dynamite usage, etc.
98	imidazolidine-2-thione; 2-imidazoline-2-thiol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
99	acetamide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
100	acetonitrile	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
101	acrylonitrile	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
102	aniline and its salts	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
103	aromatic amines	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
104	barium compounds (organic or water soluble)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
105	benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene(BNST)	Article	Controlled	unintended inclusion 1000ppm	Apply to all application. Stabilizer for rubber.
106	1,4-benzenediamine, N,N' -mixed Ph and tolyl derivs	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
107	2-benzothiazolesulphenamide, N, N-dicyclohexyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
108	butadiene, 1,3 -	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
109	colophony (rosin)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
110	copper	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
111	cyclohexane	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
112	cyclotetrasiloxane, heptamethylphenyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
113	cyclotetrasiloxane, octamethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
114	decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
115	epichlorohydrin (1-chloro-2,3-epoxypropane)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
116	fatty acids, C6-19-branched, zinc salts	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
117	fluorotelomers	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
118	hexanedioic acid, bis(2-ethylhexyl) ester	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
119	methylacrylamidomethoxy-acetate	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
120	2-naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
121	nitrites	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
122	nitrocellulose	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
123	nonylphenol ethoxylates	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
124	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.
125	phenol	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
126	phenol, 2,4,6-tris(1,1-dimethylethyl)-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
127	phenylendiamines and its salts	Article	Prohibited	1000ppm	Applies to all applications.
128	polyamine curing agents	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
129	silica, crystalline	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
130	siloxanes and silicones	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
131	sodium azide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
132	vinyl benzene	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
133	styrene oxide (epoxy styrene)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
134	thallium and its compounds	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
135	thioperoxydicarbonic diamide([(H2N)C(S)]2S2), tetramethyl-	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
136	vanadium(V) oxide	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

	Environmentally hazardous substances	Application division	Control level	Tolerance (threshold)	Object, Usage, etc.
137	1,4 benzenediol (Hydroquinone)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.
138	2-propanone, reaction products with diphenylamine (PRDPOD)	Article	Controlled	unintended inclusion 1000ppm	Applies to all applications.

Table 1-1: Applications exempted from the prohibition in RoHS Article Category 1～7, 11

This list is the contents of the "Official Journal of the European Union" at Jan, 2014.
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.

No.	Exemption	Scope and dates of applicability
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	
1(g)	Mercury in single capped (compact) fluorescent lamps for general lighting purposes < 30 W with a lifetime equal or above 20 000 h:not exceeding (per burner) 3.5 mg	31 Decmber 2017
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

No.	Exemption	Scope and dates of applicability
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
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(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

No.	Exemption	Scope and dates of applicability
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	
5(a)	Lead in glass of cathode ray tubes	
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
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(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
7(c)Ⅳ	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete	2016/7/21
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	
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	

No.	Exemption	Scope and dates of applicability
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
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(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
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(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	

No.	Exemption	Scope and dates of applicability
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
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers	Expired on 24 September 2010
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	
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	
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
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	
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
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expires on 31Dec 2013

Table 1-2: Applications exempted from the prohibition in RoHS Article Category 8, 9

This list is the contents of the "Official Journal of the European Union" at Jan, 2014.

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.

Equipment utilising or detecting ionising radiation

No.	Exemption
1	Lead, cadmium and mercury in detectors for ionising radiation
2	Lead bearings in X-ray tubes.
3	Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate.
4	Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons.
5	Lead in shielding for ionising radiation.
6	Lead in X-ray test objects.
7	Lead stearate X-ray diffraction crystals.
8	Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers.

Sensors, detectors and electrodes

No.	Exemption
1a	Lead and cadmium in ion selective electrodes including glass of pH electrodes.
1b	Lead anodes in electrochemical oxygen sensors.
1c	Lead, cadmium and mercury in infra-red light detectors
1d	Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide.

Others

No.	Exemption
9	Cadmium in helium-cadmium lasers.
10	Lead and cadmium in atomic absorption spectroscopy lamps.
11	Lead in alloys as a superconductor and thermal conductor in MRI
12	Lead and cadmium in metallic bonds to superconducting materials in MRI and SQUID detectors
13	Lead in counterweights.
14	Lead in single crystal piezoelectric materials for ultrasonic transducers.
15	Lead in solders for bonding to ultrasonic transducers.
16	Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.
17	Lead in solders in portable emergency defibrillators.
18	Lead in solders of high performance infrared imaging modules to detect in the range 8-14 μm.
19	Lead in Liquid crystal on silicon (LCoS) displays.
20	Cadmium in X-ray measurement filters.
21	Cadmium in phosphor coatings in image intensifiers for X-ray images. Cadmium in phosphor coatings in spare parts for X-ray systems placed on the EU market before 1 January 2020.
22	Lead acetate marker for use in stereotactic head frames for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment.

No.	Exemption
23	Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation.
24	Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers.
25	Lead in the surface coatings of pin connector systems requiring nonmagnetic connectors which are used durably at a temperature below – 20 °C under normal operating and storage conditions.
26	Lead in: solders on printed circuit boards; termination coatings of electrical and electronic components and coatings of printed circuit boards; solders for connecting wires and cables; and solders connecting transducers and sensors; that are used durably at a temperature below – 20 °C under normal operating and storage conditions.
27	Lead in: solders; termination coatings of electrical and electronic components and printed circuit boards; and connections of electrical wires, shields and enclosed connectors; which are used in (a) magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or (b) magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control applied for particle therapy.
28	Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.
29	Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.
30	Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers. Hexavalent chromium in alkali dispensers used to create photocathodes in spare parts for X-ray systems placed on the EU market before 1 January 2020.
31	Lead, cadmium and hexavalent chromium in reused spare parts, recovered from medical devices placed on the market before 22 July 2014 and used in category 8 equipment placed on the market before 22 July 2021, provided that reuse takes place in auditable closed-loop business-to-business return systems, and that the reuse of parts is notified to the consumer.
32	Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.
33	Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa mobile medical devices other than portable emergency defibrillators. Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIb mobile medical devices other than portable emergency defibrillators.
34	Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5 :Pb) phosphors.

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 2016 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.

DIRECTIVE 2009/48/EC
OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 June 2009
on the safety of toys

	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

Danish regulation

"Statutory Order banning the import and sale of commodities for indoor use containing phthalates DEHP, DBP, BBP, and DBP, and commodities which parts of these substances can come into contact with skin or mucous membranes (No1113)

	Substance	CAS No.
1	benzyl butan-1-yl phthalate / benzylbutylphthalate (BBP) / bis(2-methoxyethyl)phthalate	85-68-7
2	bis(2-ethylhexan-1-yl) phthalate / di(2-ethylhexyl)phthalate (DEHP)	117-81-7
3	dibutan-1-yl phthalate / dibutyl phthalate (DBP)	84-74-2
4	d-iisobutyl phthalate / diisobutylphthatlate (DIBP)	84-69-5

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 sodium dichromate	7789-12-0 10588-01-9
8	1-tert-Butyl-3,5-dimethyl-2,4,6-trinitrobenzene 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
9	bis (2-ethyl(hexyl)phthalate) (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	aluminosilicate refractory ceramic fibres	AL57
23	zirconia aluminosilicate, refractory ceramic fibres	AL58
24	2,4-dinitrotoluene	121-14-2
25	diisobutyl phthalate (DIBP)	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

	Substance	CAS No.
32	boric acid	10043-35-3
33	tetraboron disodium heptaoxide	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
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:	AL13
46	chromic acid	7738-94-5
	dichromic acid	13530-68-2
	Oligomers of chromic acid and dichromic acid	AL13
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	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	formaldehyde, oligomeric reaction products with aniline	25214-70-4
58	bis(2-methoxyethyl) phthalate	117-82-8
59	2-methoxyaniline; o-anisidine	90-04-0
60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
61	1,2-dichloroethane	107-06-2
62	bis(2-methoxyethyl) ether	111-96-6
63	arsenic acid	7778-39-4

	Substance	CAS No.
64	calcium arsenate	7778-44-1
65	trilead diarsenate	3687-31-8
66	N,N-dimethylacetamide	127-19-5
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
68	phenolphthalein	77-09-8
69	lead azide lead diazide	13424-46-9
70	lead styphnate	15245-44-0
71	lead dipicrate	6477-64-1
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
74	Diboron trioxide	1303-86-2
75	Formamide	75-12-7
76	Lead(II) bis(methanesulfonate)	17570-76-2
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-	59653-74-6
79	4,4'-bis(dimethylamino)benzophenone (michler's ketone)	90-94-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	101-61-1
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. basic violet 3)	548-62-9
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. basic blue 26)	2580-56-5
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	6786-83-0
84	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1
85	bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
86	pentacosafluorotridecanoic acid	72629-94-8
87	tricosafluorododecanoic acid	307-55-1
88	henicosafluoroundecanoic acid	2058-94-8
89	heptacosafluorotetradecanoic acid	376-06-7
90	diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
91	cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3
92	hexahydromethylphathalic anhydride hexahydro-4-methylphathalic anhydride hexahydro-1-methylphathalic anhydride hexahydro-3-methylphathalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9

	Substance	CAS No.
93	4-nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a	AL61
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	AL62
95	methoxyacetic acid	625-45-6
96	N,N-dimethylformamide; dimethyl formamide	68-12-2
97	dibutyltin dichloride (DBTC)	683-18-1
98	lead monoxide (lead oxide)	1317-36-8
99	orange lead (lead tetroxide)	1314-41-6
100	lead bis(tetrafluoroborate)	13814-96-5
101	trilead bis(carbonate)dihydroxide	1319-46-6
102	lead titanium trioxide	12060-00-3
103	lead titanium zirconium oxide	12626-81-2
104	silicic acid, lead salt	11120-22-2
105	silicic acid, barium salt, lead-doped	68784-75-8
106	1-bromopropane; n-propyl bromide	106-94-5
107	methyloxirane (propylene oxide)	75-56-9
108	1,2-benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
109	diisopentylphthalate (DIPP)	605-50-5
110	N-pentyl-isopentylphtalate	776297-69-9
111	1,2-diethoxyethane	629-14-1
112	acetic acid, lead salt, basic	51404-69-4
113	lead oxide sulfate	12036-76-9
114	[phthalato(2-)]dioxotrilead	69011-06-9
115	dioxobis(stearato)trilead	12578-12-0
116	fatty acids, C16-18, lead salts	91031-62-8
117	lead cynamidate	20837-86-9
118	lead dinitrate	10099-74-8
119	pentalead tetraoxide sulphate	12065-90-6
120	pyrochlore, antimony lead yellow	8012-00-8
121	sulfurous acid, lead salt, dibasic	62229-08-7
122	tetraethyllead	78-00-2
123	tetralead trioxide sulphate	12202-17-4
124	trilead dioxide phosphonate	12141-20-7
125	furan	110-00-9
126	diethyl sulphate	64-67-5
127	dimethyl sulphate	77-78-1

	Substance	CAS No.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
129	dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
130	4,4'-methylenedi-o-toluidine	838-88-0
131	4,4'-oxydianiline and its salts	101-80-4
132	4-aminoazobenzene	60-09-3
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
135	biphenyl-4-ylamine	92-67-1
136	o-aminoazotoluene	97-56-3
137	o-toluidine	95-53-4
138	N-methylacetamide	79-16-3
139	Cadmium	7440-43-9
140	Cadmium oxide	1306-19-0
141	Dipentyl phthalate (DPP)	131-18-0
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
145	cadmium sulphide	1306-23-6
146	dihexyl phthalate	84-75-3
147	disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
148	disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
149	imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
150	lead di(acetate)	301-04-2
151	trixylyl phosphate	25155-23-1

Table 10: brominated flame retardant prohibition material list

Substance	CAS No.
2-bromobiphenyl	2052-07-5
3-bromobiphenyl	2113-57-7
4-bromobiphenyl	92-66-0
tetrabromobiphenyl	40088-45-7
pentabromobiphenyl	56307-79-0
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

Substance	CAS No.
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
PBDE	AL19
hexabromocyclododecane(HBCDD)	25637-99-4
hexabromocyclododecane(HBCDD)	3194-55-6
	4736-49-6
	65701-47-5
	134237-50-6
	134237-51-7
	134237-52-8
	138257-17-7
	138257-18-8
	138257-19-9
	169102-57-2
	678970-15-5
	678970-16-6
	678970-17-7

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	
2-chloro-1,1,1,3,3,3-hexafluoro-propane(HCFC-226da)	431-87-8
tetrabromofluoroethane	HSC261016
tribromodifluoroethane	HSC261017
bromotetrafluoroethane(HBFC-124 B1)	124-72-1
tribromofluoroethane	HSC261021
hexabromofluoropropane	HSC261039
pentabromodifluoropropane	HSC261040
tetrabromotrifluoropropane	HSC261015
tribromotetrafluoropropane	HSC261019
C3HF4Br3	666-48-8
dibromopentafluoropropane (HBFC-225 B2)	431-78-7
pentabromofluoropropane	HSC261041
tribromotrifluoropropane	HSC261020
dibromotetrafluoropropane	HSC261006
bromopentafluoropropane	HSC261038
tetrabromofluoropropane	HSC261013
C3H3FBr4	148875-95-0
tribromodifluoropropane	HSC261018
bromotetrafluoropropane	HSC261028
C3H3F4Br	19041-01-1 29151-25-5 679-84-5 460-67-3
tribromofluoropropane	HSC261022
C3H4FBr3	75372-14-4
bromotrifluoropropane	HSC261031
dibromofluoropropane	HSC261011
bromodifluoropropane	HSC261027
bromotrifluoropropane	421-46-5
methyl bromide / methyl bromide (bromomethane)	74-83-9
bromoethane(ethyl bromide)	74-96-4
trifluoroiodomethane (trifluoromethyl iodide)	2314-97-8
chloromethane	74-87-3
bromofluoromethane	373-52-4
chlorotrifluoroethylene	79-38-9
bromochloromethane / chlorobromomethane	74-97-5
tetrachloromethane (tetrachlorocarbon)	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
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1
trichlorotrifluoroethane	354-58-5
heptachlorofluoropropane	422-78-6
1,1,1,2,3,3,3-heptachloro-2-fluoropropane(CFC-211ba)	422-81-1
dichlorotetrafluoroethane	1320-37-2
1,1,1,3,3,3-hexachloro-2,2-difluoropropane	3182-26-1
hexachlorodifluoropropane	134452-44-1
bromochlorodifluoromethane / chlorodifluorobromomethane	353-59-3

Substance	CAS №
2-chloro-1,1,1,2,3,3,3-heptafluoropropane	76-18-6
heptafluoropropyl chloride	422-86-6
monochloropentafluoroethane	76-15-3
pentachlorotrifluoropropane	134237-31-3
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
1,2,2-trichloropentafluoropropane	1599-41-3
1,2,3-trichloro-1,1,2,3,3-pentafluoropropane	76-17-5
1,1,1-trichloropentafluoropropane	4259-43-2
1,2-dichloro-1,1,2,3,3,3-hexafluoropropane	661-97-2
heptachlorofluoropropane	135401-87-5
1,1-dichlor-1,2,2,2-tetrafluoroethane	374-07-2
cryofluorane	76-14-2
trichlorotrifluoroethane	26523-64-8
1,1-dichlor-1,2,2,2-tetrafluoroethane	67-72-1
1,1,1,2-tetrachlor-2,2-difluoroethane	76-11-9
1,1,1,3-tetrachlorotetrafluoropropane	2268-46-4
tetrachlorotetrafluoropropane	29255-31-0
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
bromodifluoromethane	1511-62-2
bromofluoroethane / 1-bromo-2-fluoroethane	762-49-2
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

Substance	CAS №
dibromotrifluoroethane / 1,2-dibromo-1,1,2-trifluoroethane	354-04-1
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
C3HF2Br5	AL01
C3HF3Br4	AL01
C3H2FBr5	AL01
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 22692-16-6 460-88-8 679-94-7 26391-11-7 53692-43-6 53692-44-7
tribromodifluoropropane(HBFC-242 B3)	70192-80-2
1,2,3-tribromo-3,3-difluoropropane	666-25-1
C3H3F4Br	70192-71-1 70192-84-6
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	421-02-03
1-chloro-1,1-difluoropropane(HCFC-262fc)	421-02-3

Substance	CAS №
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
tetrachlorotrifluoropropane	134237-37-9
trichlorotetrafluoropropane	134237-38-0
tetrachlorodifluoropropane	134237-39-1
trichlorotrifluoropropane	134237-40-4
chloropentafluoropropane	134237-41-5
trichlorodifluoropropane	134237-42-6
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
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
1,1,1-trichloro-3,3,3-trifluoropropane(HCFC-233fb)	7125-83-9
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,1-dichloro-1-fluoropropane(HCFC-261fc)	7799-56-6
1,1,3-trichloro-1-fluoropropane	818-99-5
dichlorodifluoropropane	134190-52-6
dichlorofluropropane	127404-11-9
dichlorotetrafluoropropane	127564-83-4
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

Substance	CAS №
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
2-chloro-1,1,1,2-tetrafluoroetahne / ethane, 2-chloro-1,1,1,2-tetrafluoro-	2837-89-0
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
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
ethane, chloro-1,1-difluoro-	55949-44-5
ethane, monochlorodifluoro-	338-65-8
trichlorofluoroethane	27154-33-2
chlorodifluoropropane	134190-53-7
1-chloro,1-fluoroethane	1615-75-4
chlorofluoroethane	110587-14-9
chlorofluoropropane	134190-54-8
2-chloro-1,1,1,3,3,3-hexafluoropropane	134308-72-8
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-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
1,1,1,3,3-pentachloro-2,2-difluoropropane(HCFC-222ca)	422-49-1
1,2,2,3,3-pentachloro-1,1-difluoropropane(HCFC-222aa)	422-30-0
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
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
1,1,1,3-tetrachloro-3,3-difluoropropane(HCFC-232fc)	460-89-9
1,3,3-trichloro-1,1-difluoropropane(HCFC-242fa)	460-63-9
1,1,1,2,2,3-hexachloro-3-fluoropropane(HCFC-221ab)	422-26-4
1-chloro-1,1,2,2-tetrafluoropropane(HCFC-244cc)	421-75-0
1,2-dichloro-2-fluoropropane(HCFC-261ba)	420-97-3
1,1,2-trichloro-1-fluoropropane(HCFC-251dc)	421-41-0
1,3-dichloro-1,1-difluoropropane(HCFC-252fb)	819-00-1
1,2-dichloro-1,2,3,3-tetrafluoropropane(HCFC-234db)	425-94-5

Substance	CAS №
1,1,1-trichloro-2,2-difluoroethane(HCFC-122b)	354-12-1
1-chloro-2,2-difluoropropane(HCFC-262ca)	420-99-5
1-chloro-2-fluoroethane(HCFC-151)	762-50-5
1,1,1,2,3-pentachloro-2-fluoro-propane(HCFC-231bb)	421-94-3
1,1,1,2,2,3,3-heptafluoropropane	2252-84-8
1,2-difluoroethane	624-72-6
difluoroethane	25497-28-3
ethyl fluoride	353-36-6
1,1,1,2,2-pentafluoropropane	1814-88-6
propane, hexafluoro-	27070-61-7
trifluoroethane	27987-06-0
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
1,1,1,3,3,3-hexafluoropropane(HFC236fa)	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(HFC-125)	354-33-6
hydrofluorocarbon greenhouse substances	AL03
sulfur hexafuoride	2551-62-4
nitrogen trifluoride	7783-54-2
chloroform	
chloroform / trichloromethane (chloroform)	67-66-3
glycol ether and its acetates	
2-methoxyethanol	109-86-4
propanol, 2-methoxy-	1589-47-5
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
2-ethoxyethanol	110-80-5
methyl cellosolve acetate / 2-methoxyethyl acetate	110-49-6
2-ethoxyethyl acetate	111-15-9
diethleneglycol dimethylether	111-96-6

Substance	CAS №
ethanol, 2-(2-methoxyethoxy)-	111-77-3
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	AL05
brominated solvents	
1-bromopropane	106-94-5
2-bromopropane	75-26-3
organic 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
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
tetrachloromethane (tetrachlorocarbon)	56-23-5
chloroform / trichloromethane (chloroform)	67-66-3
propane, 1,2-dichloro-	78-87-5
chlorinated solvent	AL09
cadmium and its compounds	
diethyl cadmium	592-02-9
dimethylcadmium	506-82-1

Substance	CAS №
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,	101357-00-0
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper	101357-01-1
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide,	101357-02-2
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold	101357-03-3
cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide,	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

Substance	CAS №
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
(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

Substance	CAS №
[.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
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

Substance	CAS №
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
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

Substance	CAS №
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
phenylmercury salicylate	28086-13-7

Substance	CAS №
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]-	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-	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-	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

Substance	CAS №
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
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	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

Substance	CAS №
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
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

Substance	CAS №
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
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

Substance	CAS №
lead hydroxide	19783-14-3
lead hydroxide	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
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

Substance	CAS №
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
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

Substance	CAS №
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
lead, bis(2-hydroxybenzoato-O1,O2)-, (T-4)-	15748-73-9
lead, bis(dipentylcarbamodithioato-S,S')-, (T-4)-	36501-84-5
lead, bis(diphenylcarbamodithioato-S,S')-, (T-4)-	75790-73-7
lead, bis(octadecanoato)dioxotri-	12565-18-3
lead, bis(octadecanoato)dioxotri-	12578-12-0
lead, bullion	97808-88-3
lead, C3-13-fatty acid naphthenate complexes	79803-79-5
lead, C4-10-fatty acid naphthenate complexes	84067-00-5
lead, C4-10-fatty acid octanoate complexes	92200-92-5
lead, C5-23-branched carboxylate C4-10-fatty acid complexes	84066-98-8
lead, C5-23-branched carboxylate C4-10-fatty acid naphthenate complexes	83711-45-9
lead, C5-23-branched carboxylate naphthenate complexes	83711-46-0
lead, C5-23-branched carboxylate naphthenate octanoate complexes	83711-47-1
lead, C5-23-branched carboxylate octanoate complexes	84066-99-9
lead, C6-19-branched carboxylate naphthenate complexes	70084-67-2
lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes	90431-28-0
lead, C8-10-branched fatty acids C9-11-neofatty acids naphthenate complexes, overbased	90431-27-9
lead, C9- 28-neocarboxylate 2-ethylhexanoate complexes, basic	125494-56-6
lead, decanoate octanoate complexes	70321-55-0
lead, di-.mu.-hydroxy(2-methyl-4,6-dinitrophenol,ato-O1)(nitrato-O)di-	96471-22-6
lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di-	12403-82-6
lead, dross	69029-52-3
lead, dross, antimony-rich	69029-45-4
lead, dross, bismuth-rich	69029-46-5
lead, dross, copper-rich	69227-11-8
lead, dross, vanadium-zinc-containing	100656-49-3
lead, isodecanoate isononanoate complexes, basic	90431-36-0
lead, isodecanoate isooctanoate complexes, basic	90431-37-1
lead, isodecanoate naphthenate complexes	90431-38-2
lead, isodecanoate naphthenate complexes, basic	101012-92-4
lead, isodecanoate neodecanoate complexes, basic	90431-39-3
lead, isononanoate isooctanoate complexes, basic	84929-94-2
lead, isononanoate naphthenate complexes	84929-97-5
lead, isononanoate naphthenate complexes, basic	90431-40-6
lead, isononanoate neodecanoate complexes, basic	90431-41-7
lead, isooctanoate naphthenate complexes	68515-80-0
lead, isooctanoate naphthenate complexes, basic	90431-42-8
lead, isooctanoate neodecanoate complexes	101013-06-3
lead, isooctanoate neodecanoate complexes, basic	84929-95-3
lead, naphthenate neodecanoate complexes	90431-43-9
lead, naphthenate neodecanoate complexes, basic	84929-96-4
lead, neononanoate neoundecanoate complexes, basic	90431-44-0
lead, zinc dross	94551-60-7
linseed oil, polymer with tung oil, lead salt	68990-75-0
linseed oil, reaction products with lead oxide (Pb3O4) and mastic	68152-99-8
methanesulfonic acid, lead(2+) salt	17570-76-2
lead chromate molybdate sulphate red / molybdate orange (lead chromate pigment)	12656-85-8

Substance	CAS №
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

Substance	CAS №
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
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
pyrochlore, antimony lead yellow	8012-00-8
silicic acid, barium salt, lead-doped	68784-75-8
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

Substance	CAS №
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	99328-50-4
nitric acid, copper(2+) salt, reaction products with ammonia, chromic acid (H2CrO4) diammonium	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
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
oligomers of chromic acid and dichromic acid	AL13
hexavalent cromium compounds	AL13
organiostannic compounds	
tributyltin carboxylate(C=9-15)	HSC380309
bis(tri-n-butyltin) dibromosuccinate	31732-71-5
coplymer of akyl(c=8) acrylate, methyl methacrylate and tributyltin methacrylate	67772-01-4
(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-	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
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

Substance	CAS №
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
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
triphenylstannyl decanoate	18380-71-7
triphenylstannyl decanoate	18380-72-8
triphenylstannyl decanoate	94850-90-5

Substance	CAS №
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
triethyltin compounds	AL52
trihexyltin compounds	AL52
trimethyltin compounds	AL52
trioctyltin compounds	AL52
tripentyltin compounds	AL52
triphenyltin compounds	AL14
tripropyltin compounds	AL52
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-	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
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 /	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

Substance	CAS №
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
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
dioctyltin bis(2-ethylhexyl maleate)	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
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

Substance	CAS №
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
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
heptabromobiphenyl	35194-78-6
nonabromo-1,1'-biphenyl	27753-52-2

Substance	CAS №
[1,1'-biphenyl]-ar,ar'-diol, tetrabromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-	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

Substance	CAS №
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
PBDE	AL19
brominated flame retardant which comes under notation of iso 1043-4 code number FR(14)	FR(14)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(15)	FR(15)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(16)	FR(16)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(17)	FR(17)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(22)	FR(22)
brominated flame retardant which comes under notation of iso 1043-4 code number FR(42)	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

Substance	CAS №
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 4736-49-6 65701-47-5 134237-50-6 134237-51-7 134237-52-8 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7
α-hexabromocyclododecane	134237-50-6
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
2-bromo-p-terphenyl	75295-57-7
4,4'-dibromo-p-terphenyl	17788-94-2
3-bromo-p-terphenyl	1762-87-4
brominated flame retardants	AL42
polychlorinated naphthalene	
alpha-chloronaphthalene	90-13-1
octachloronaphthalene	2234-13-1

Substance	CAS №
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
hexabromobipheny	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	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
chlorinated polyethylene	64754-90-1
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
4,4'-methylenedianiline (MDA) / diamino-diphenylmethane (4,4'-diaminodiphenylmethane)	101-77-9
4,4'-methylenedi-o-toluidine	838-88-0

Substance	CAS №
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

Substance	CAS №
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
benzoic acid, 3,3'-[(3,7-disulfo-1,5-naphthalenediyl)bis[azo(6-hydroxy-3,1-phenylene)azo[6(or 7)-	8014-91-3
salts from 3,3'-dimethoxybenzidine	AL23
dipotassium O,O'-(4,4'-diaminobiphenyl-3,3'-ylene)diglycollate	74220-10-3
salts from 3,3'-dimethoxybenzidin	AL23
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
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

Substance	CAS №
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
(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-	97404-22-3
[[N,N',N"-[29H,31H-Phthalocyaninetriyltris(sulphonylimino-3,1-phenylene)]tris[3-	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

Substance	CAS №
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-	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
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

Substance	CAS №
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.	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
C.I. Pigment Yellow 157 (Nickel barium titanium priderite)	68610-24-2
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
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

Substance	CAS №
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)-	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
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

Substance	CAS №
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-	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-	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-	90459-35-1
nickel, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, chlorosulfonyl derivitives, reaction	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-	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-	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-	72986-45-9
nickel, [N,N',N''-tris[4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)phenyl]-29H,31H-	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
nickel, bis(phenyldiazenecarbothioic acid 2-phenylhydrazidato)-	36545-21-8

Substance	CAS №
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-	79745-01-0
nickelate(1-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-,	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']-,	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]-	71243-96-4
nickelate(3-), [5-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]-4-hydroxy-3-[(2-	79817-91-7
nickelate(3-), [C-[[[3-[(4-amino-6-chloro-1,3,5-triazin-2-yl)amino]phenyl]amino]sulfonyl]-C,C,C-	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

Substance	CAS №
nickelate(4-), [[[nitrilotris(methylene)]tris[phosphonato]](6-)-N,OP,OP',OP'']-, triammonium	67968-22-3
nickelate(4-), [22-[[(4-sulfophenyl)amino]sulfonyl]-29H,31H-phthalocyanine-1,8,15-trisulfonato(6-)-	70729-79-2
nickelate(4-), [bis[[[3-[[4,5-dihydro-3-methyl-5-oxo-1-[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]-1H-	90459-36-2
nickelate(6-), [4-[[5-[[(3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-	93891-86-2
nickelate(6-), [4-[[5-[[(3,6-dichloro-4-pyridazinyl)carbonyl]amino]-2-sulfophenyl]azo]-4,5-dihydro-	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-	72453-55-5
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentaammonium	68958-86-1
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentapotassium	68958-87-2
nickelate(6-),[[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)], pentasodium	68958-88-3
nickelate(8-), bis[3-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-2-hydroxy-5-sulfobenzoato(5-	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-	79102-62-8
tetrakis(trifluorophosphine)nickel	13859-65-9
tetrasodium [[[(3-amino-4-sulphophenyl)amino]sulphonyl]-29H,31H-phthalocyaninetrisulphonato(6-	93939-76-5
tetrasodium [bis[[[4-[[2-(sulphooxy)ethyl]sulphonyl]phenyl]amino]sulphonyl]-29H,31H-	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
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

Substance	CAS №
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
arsenic acid	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
arsenic bromide	7784-33-0
arsenic chloride	37226-49-6
arsino thioxo	12044-79-0
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

Substance	CAS №
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
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
calcium arsenate	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
copper arsenite	33382-64-8
copper diarsenite	16509-22-1
diarsenic acid	13453-15-1
diphenyldiarsenic acid	4519-32-8
disodium hydrogen arsenate	10048-95-0
disodium hydrogen arsenate	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	106097-61-4
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

Substance	CAS №
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
potassium arsenite	13464-35-2
praseodymium arsenide (PrAs)	12044-28-9
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
silver arsenide (Ag2As)	70333-07-2
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
strontium arsenite	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
trisilver arsenite	7784-08-9
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

Substance	CAS №
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
tris(1,3-dichloro-2-propyl)phosphate	13674-87-8
trixylyl phosphate	25155-23-1
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
phthalic esters	
N-pentyl-isopentylphtalate	776297-69-9
benzyl butan-1-yl phthalate / benzylbutylphthalate (BBP) / bis(2-methoxyethyl)phthalate	85-68-7
bis(2-methoxyethyl)phthalate	117-82-8
bis(2-ethylhexan-1-yl) phthalate / di(2-ethylhexyl)phthalate (DEHP)	117-81-7
dibutan-1-yl phthalate / dibutyl phthalate (DBP)	84-74-2
d-iisobutyl phthalate / diisobutylphthatlate (DIBP)	84-69-5
di-isononyl phthalate, phthalic acid, di-C8-10 branched alkyl esters C9 rich di-isononyl phthalate,	28553-12-0 68515-48-0
1,2-benzenedicarboxylic acid diisodecyl ester（di-isodecyl phthalate） 1,2-benzenedicarboxylic acid diisodecyl ester（di-isodecyl phthalate）	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
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, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
(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
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)-	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	

Substance	CAS №
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
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
polycyclic aromatic hydrocarbons (PAH; PCAH) in polymers, selected	AL49
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-	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

Substance	CAS №
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
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

Substance	CAS №
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
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

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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-	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
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-)-	68025-39-8
cobaltate (6-), [[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)-	67924-23-6
cobaltate (6-), [[[1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)-	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-	70815-19-9

Substance	CAS №
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-	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-	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-)]-,	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-)]-,	72928-76-8
cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-	68413-61-6
cobaltate(1-), [3-[[1-(4-chlorophenyl)-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl]azo]-4-hydroxy-	74499-63-1
cobaltate(1-), [3-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-	72403-33-9
cobaltate(1-), [3-[4-[(5-chloro-2-hydroxyphenyl)azo]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-	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-	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]-, hydrogen	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

Substance	CAS №
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
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-)]-, sodium	66104-83-4
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, hydrogen	72928-91-7
cobaltate(1-), bis[2-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-3-oxo-N-phenylbutanamidato(2-)]-, sodium	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-oxobutanamidato(2-)]-, sodium	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

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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-)]-, ammonium	63971-70-0
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]benzenesulfonamidato(2-)]-, hydrogen	50525-57-0
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-)]-, lithium	83804-08-4
cobaltate(1-), bis[4-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-N-methylbenzenesulfonamidato (2-)]-, sodium	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-	70236-43-0
cobaltate(1-), bis[6-amino-5-[(2-hydroxy-4-nitrophenyl)azo]-N-methyl-2-naphthalenesulfonamidato(2-)]-, sodium	70236-59-8
cobaltate(1-), bis[hydrogen 3-hydroxy-4-[(2-hydroxy-1-naphthyl)azo]-7-nitro-1-naphthalenesulfonato(2-)]-	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

Substance	CAS №
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-)]-, sodium	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-6-21)-	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
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-)]-,	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-)]-,	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

Substance	CAS №
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-)]-, trisodium	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
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-)]-,	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

Substance	CAS №
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
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

Substance	CAS №
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
hydrazinium(1+), (OC-6-21)-[[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-	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-)]cobaltate(1-)	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-)]cobaltate(1-)	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"':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

Substance	CAS №
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
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-	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-	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

Substance	CAS №
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-	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
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
5-chloro-2-methyl-4-thiazoline-3-ketone	26172-55-4
5-chloro-2-methyl-thiazol-3-one; 2-methylthiazol-3-one	AL60
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

Substance	CAS №
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
xylene	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
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

Substance	CAS №
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 chloride	
([4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium	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
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'-	5102-83-0
butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-	5567-15-7
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
diboron trioxide	
diboron trioxide	1303-86-2
formamide	
formamide	75-12-7
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
4,4'-bis(dimethylamino)benzophenone (michler's ketone)	
4,4'-bis(dimethylamino)benzophenone (michler's ketone)	90-94-8
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (michler's base)	101-61-1
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. basic blue 26)	2580-56-5

Substance	CAS №
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. solvent blue 4)	6786-83-0
4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	
4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1
pentacosafluorotridecanoic acid	
pentacosafluorotridecanoic acid	72629-94-8
tricosafluorododecanoic acid	
tricosafluorododecanoic acid	307-55-1
henicosafluoroundecanoic acid	
henicosafluoroundecanoic acid	2058-94-8
heptacosafluorotetradecanoic acid	
heptacosafluorotetradecanoic acid	376-06-7
diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	
diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	
cyclohexane-1,2-dicarboxylic anhydride (hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3
hexahydromethylphathalic anhydride, hexahydro-4-methylphathalic anhydride,	
hexahydromethylphathalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9
4-nonylphenol, branched and linear	
4-nonylphenol, branched and linear	AL61
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -[covering well-defined substances and UVCB substances, polymers and homologues]	
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -[covering well-defined substances and UVCB substances, polymers and homologues]	AL62
methoxyacetic acid	
methoxyacetic acid	625-45-6
methyloxirane (propylene oxide)	
methyloxirane (propylene oxide)	75-56-9
1,2-benzenedicarboxylic acid, dipentylester, branched and linear	
1,2-benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
1,2-diethoxyethane	
1,2-diethoxyethane	629-14-1
furan	
furan	110-00-9
diethyl sulphate	
diethyl sulphate	64-67-5
dimethyl sulphate	
dimethyl sulphate	77-78-1
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
dinoseb (6-sec-butyl-2,4-dinitrophenol)	
dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
acetamide, N-methyl-	
acetamide, N-methyl-	79-16-3
dimethylformamide (N,N-dimethylformamide)	
dimethylformamide (N,N-dimethylformamide)	68-12-2

Substance	CAS №
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-
PFOA and its salts, perfluorooctanoic acids C8F15O2X (X = H, NH4, 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
pentadecafluorooctyl fluoride	335-66-0
methyl perfluorooctanoate	376-27-2
ethyl perfluorooctanoate	3108-24-5
PFOA related substances	AL48
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
ammonium perchlorate	
ammonium perchlorate	7790-98-9
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
2-[2-(4-nonylphenoxy)ethoxy]ethanol	20427-84-3
3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(4-nonylphenoxy)-	34166-38-6
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	27942-27-4
3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol, 26-(4-nonylphenoxy)-	14409-72-4
perchlorates	
ammonium perchlorate	7790-98-9
barium perchlorate	13465-95-7
lead perchlorate	13637-76-8

Substance	CAS №
lithium Perchlorate	7791-03-9
magnesium perchlorate	10034-81-8
perchloric acid, reaction products with lead oxide (pbo) and triethanolamine	99749-31-2
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
imidazolidine-2-thione; 2-imidazoline-2-thiol	
imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
acetamide	
acetamide	60-35-5
acetonitrile	
acetonitrile	75-05-8
acrylonitrile	
acrylonitrile	107-13-1
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-dichloro-4-(1,1,2,2-tetrafluroethoxy)aniline	104147-32-2
benzenamine, 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-,	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

Substance	CAS №
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
barium-sebacate	19856-32-7
naphthenic acid, barium salts	61789-67-1
benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	
benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	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
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
epichlorohydrin (1-chloro-2,3-epoxypropane)	
epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8
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
methylacrylamidomethoxy-acetate	
hexanedioic acid, bis(2-ethylhexyl) ester	103-23-1
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

Substance	CAS №
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
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
phenol	
phenol,	108-95-2
phenol,, 2,4,6-tris(1,1-dimethylethyl)-	
phenol,, 2,4,6-tris(1,1-dimethylethyl)-	732-26-3
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
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	

Substance	CAS №
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
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

Substance	CAS №
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
1,4 Benzenediol (Hydroquinone)	
1,4 benzenediol (Hydroquinone)	123-31-9
2-Propanone, reaction products with diphenylamine (PRDPOD)	
2-propanone, reaction products with diphenylamine (PRDPOD)	68412-48-6

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, or IEC 62321:2008, EPA 3052:1996), (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

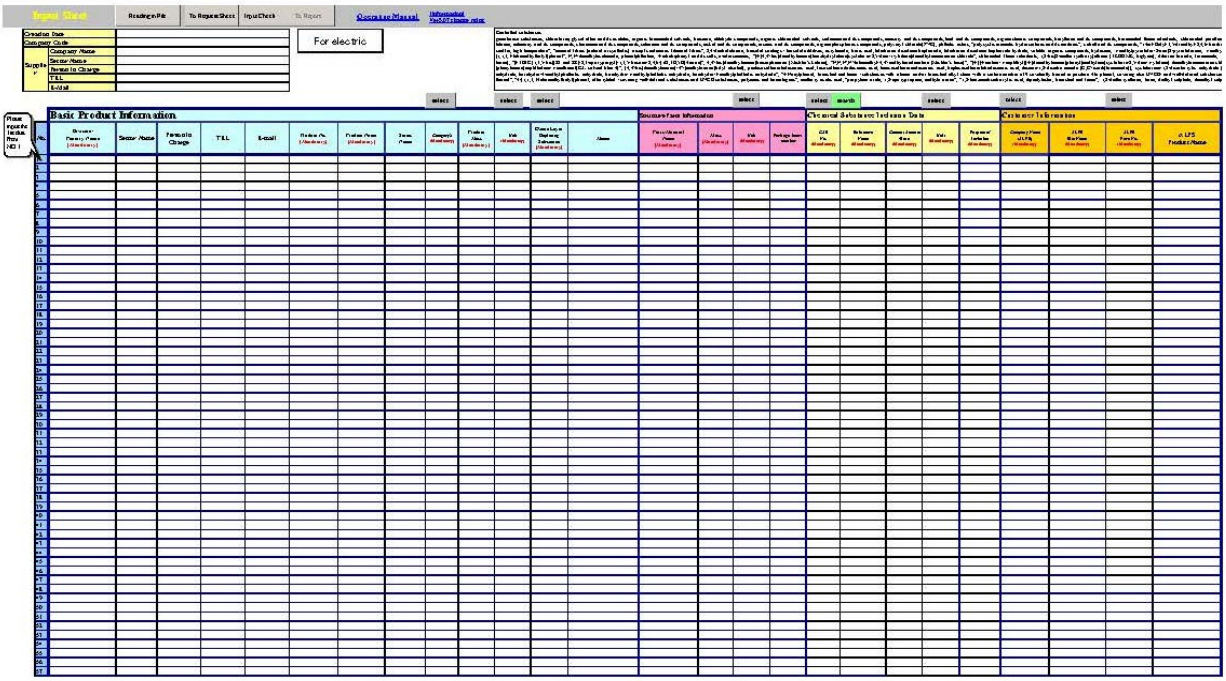
Pretreatment method	Plastic is decomposed and liquefied using either one of the following methods in (1) to (3). (It is preferable that analysis is performed without using sulfuric acid whenever possible. For example, IEC62321:2008, EPA 3052:1996) (1) Wet decomposition using nitric acid, sulfuric acid, 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)

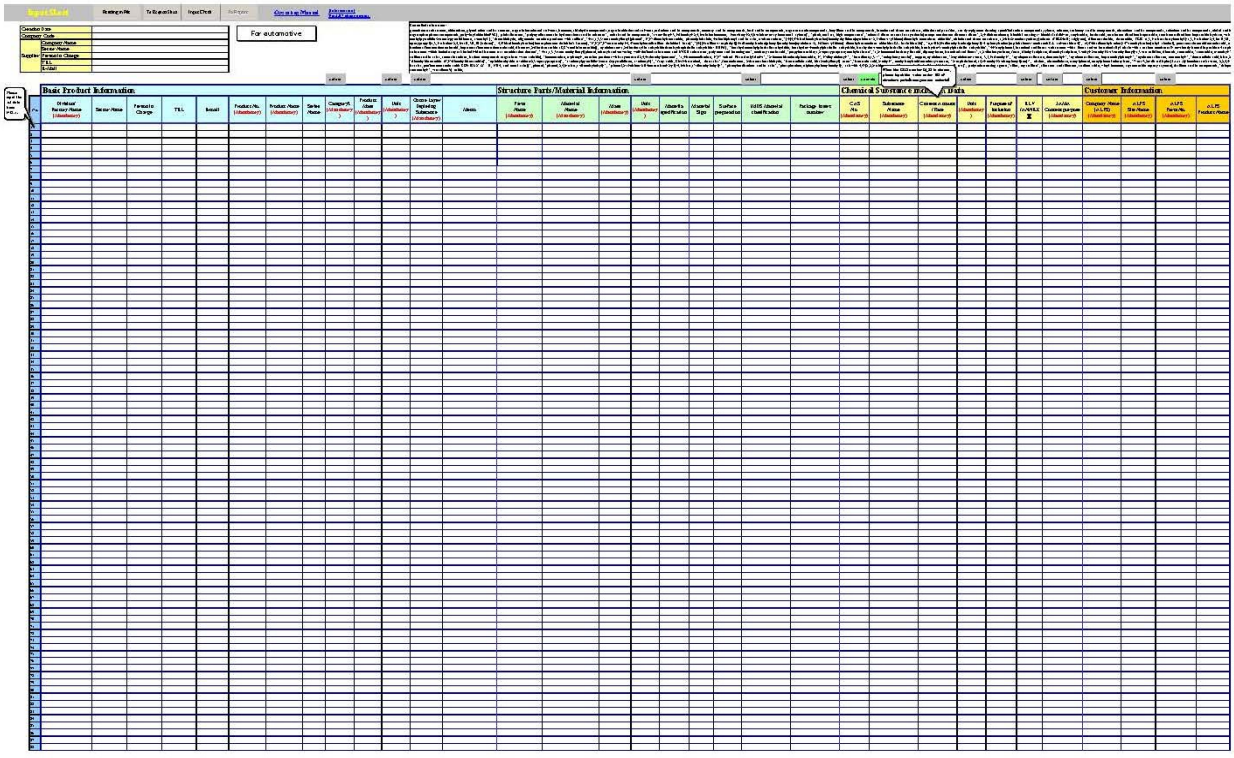
Pretreatment method (other than mercury)	Sample is decomposed and liquefied using either one of the following methods in (1) to (3). (For example, IEC62321:2008, EPA 3052:1996) (1) Wet decomposition using nitric acid, sulfuric acid, hydrogen peroxide, fluorine, and hydrochloric acid (for example, EN1122-2001 “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.
Pretreatment method (hexavalent chromium)	Extraction methods such as boiling water extraction and alkaline extraction （For example, IEC 62321:2008 Annex C、EPA 3060A）
Measuring method (hexavalent chromium)	Ultraviolet-Visible(UV/VIS) Spectroscopy Hexavalent chromium of less than 5 ppm must be guaranteed.
Remarks	Chromium shall be analyzed as total chromium amount.

Appendix 7-1 : Collective Registration Tool (For Electric)

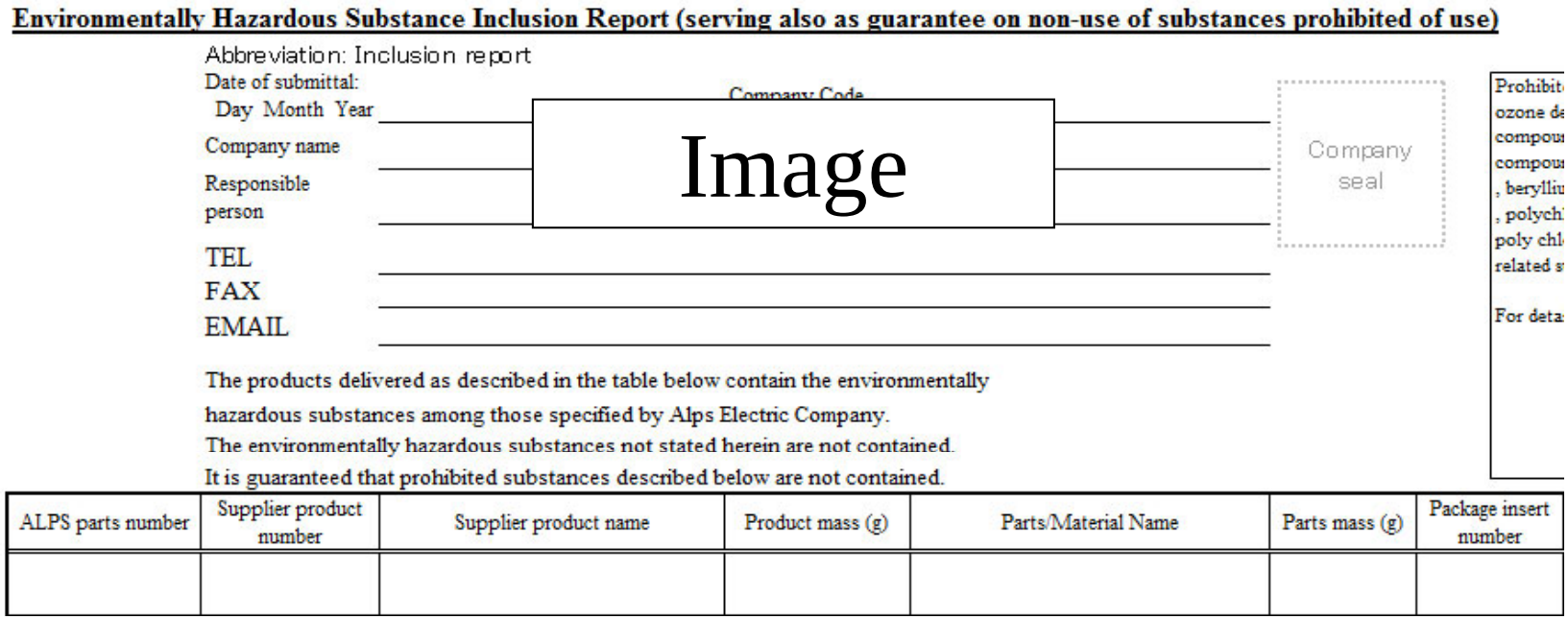


Appendix 7-2 : Collective Registration Tool (For Automotive)



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

Here, the image of the "Environmentally Hazardous Substance Inclusion Report (serving also as guarantee on non-use of substances prohibited of use)" is published.



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

Abbreviation: Inclusion report

Date of submittal:
Day Month Year

Company Code

Company name

Responsible person

Image

Company seal

TEL

FAX

EMAIL

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.

Prohibit
ozone de
compou
compou
, berylliu
, polychl
poly chl
related s

For deta

ALPS parts number	Supplier product number	Supplier product name	Product mass (g)	Parts/Material Name	Parts mass (g)	Package insert number

Appendix 9: Reasons for Regulating the Environmentally Hazardous Substances

(applicable laws and effects on human bodies)

Regulations, standards etc.		revice date
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	Japan	2011/Apr/1
Industrial Safety and Health Act	Japan	2007/Sep/7
Poisonous and Deleterious Substances Control Law	Japan	2007/Aug/15
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	Japan	2012/Jun/1
Act on the Protection of the Ozone Layer Through the Control of Specified Substances and Other Measures	Japan	2011/Dec/9
Act on Special Measures against Dioxins	Japan	2011/Aug/30
Offensive Odor Control Act	Japan	2011/Dec/14
Act on Control of Household Products Containing Harmful Substances	Japan	2009/Jun/5
Act on Prevention of Marine Pollution and Maritime Disaster	Japan	2010/May/28
Water Pollution Control Act	Japan	2011/Aug/30
Air Pollution Control Act	Japan	2011/Aug/30
Agricultural Land Soil Pollution Prevention Act	Japan	2011/Aug/30
Act on Promotion of Global Warming Countermeasures	Japan	2011/Jun/24
Act on the Rational Use of Energy	Japan	2011/Jun/24
Narcotics and Psychotropic Control Act	Japan	2006/Jun/14
Waste Management and Public Cleansing Act	Japan	2011/Aug/30
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	2011/65/EU
Directive 2011/37/EC of the European Parliament and of the Council of 30 March 2011 on End-Of Life Vehicles (ELV)	EU	2011/37/EC
REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending R	EU	ECNo 286/2011
REACH Annex XVII [except: CLP Annex VI Table 3.2 CMR-cat 1,2]	EU	ECNo 494/2011
Candidate List of Substances of Very High Concern for Authorisation ECHA : EUROPEAN CHEMICAL AGENCY Helsinki, 19 December 2011	EU	2013/Dec/16
Restrictions of marketing and use of certain chemicals 76/769/EEC (7/26/1976)	EU	2011/Jun/20

Regulations, standards etc.		revice date
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	COMMISSION DIRECTIVE 2009/2/EC
Directive 94/62/EC of 20 December 1994 on packaging and packaging waste	EU	COMMISSION DECISION of 8 May 2006 2006/340/EC
DIRECTIVE 2009/48/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 June 2009 on the safety of toys	EU	DIRECTIVE 2009/48/EC 2009/Jun/30
ESIS PBT [Fulfilled] European chemical Substances Information System	EU	2008/Oct/28
Consumer Goods Ordinance (4/1997)	Germany	2004/Dec
Danish regulation Statutory Order banning the import and sale of commodities for indoor use containing phthalates DEHP, DBP, BBP, and DBP, and commodities which parts of these substances can come into contact with skin or mucous membranes (No1113) Bekendtgørelse om forbud mod import og salg af varer til indendørs brug, som indeholder ftalaterne DEHP, DBP, BBP og DIBP, og varer hvor dele med disse stoffer kan komme i kontakt med hud eller slimhinder	Danish	2012/Nov/30
Regulation on restrictions on the use of health and environmentally hazardous chemicals and other products (Product Regulations) http://www.lovdata.no/cgi-wift/ldles?xdoc=/for/ff-20130527-0550.html	Norway	
TSCA Asbestos 40 CFR Part 763 (1976)	US	1997/Aug/25
TSCA Significant New Uses of Chemical Substances (SNURs) 40CFR Part 721(1976)	US	1997/Aug/25
TSCA: Chemical Imports and Export 40 C.F.R. §707	US	1997/Aug/25
TSCA: Reporting and Recordkeeping Requirement 40 C.F.R. §704	US	1997/Aug/25
TSCA: Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions 40 C.F.R. Part 761. (1979)	US	1997/Aug/25
TSCA: Water Treatment Chemicals: Hexavalent Chromium-based Water Treatment Chemicals in Cooling Systems 40 C.F.R. §749.68	US	1997/Aug/25
Proposition65 (1986) [California State, USA]	US	2013/Sep/13
Prohibition of Certain Toxic Substances Regulations, 2012 (2012/Aug/13)	Canada	2012/12/13
Perfluorooctane Sulfate and its Salts and Certain Other Compounds Regulations [Federal]	Canada	2008/5/29
Stockholm Convention on Persistent Organic Pollutants (POPs) Annex Ⅰ	global treaty	2013/October
Montreal Protocol on Substances that Deplete the Ozone Layer (ODS)	global treaty	1999/Nov/15

Regulations, standards etc.		revice date
International Agency for Research on Cancer (IARC)	global treaty	2004/Dec
GADSL : Global Automotive Declarable Substance List)	Industry standard	GADSL 2014 Version 1.0 (2014/02/01)
IEC62474	Industry standard	2013/Sep/26

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.

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