

Green Procurement Guideline



JAE Group

Revision History (1/3)

Rev.	Revised Date	Summary	Prepared by	Approved by
1	2005.11.09	J KCN-030: (1) Addition of document No., revision No., page numbers and revision history. (2) Addition of “reaction residues and impurities, etc.” following the regulation trends in customers and the RoHS Directive. (3) The content thresholds represent the upper limit, not inclusive. The above additions and revision are made, and the Guideline is newly issued.	T.Mitake	S.Itoh
2	2007.7.31	J KCN-061: (1) Change of JAE LOGO with the slogan. (2) Clarification of the threshold level for substances contained in packing materials. (3) Change as a result of banning the use of cobalt chloride in packing materials. (4) Change and clarification of "Environmental Questionnaire 1" as a result of the revision of the Materials Regulation. (5) The scope of azo compounds is specified. (6) Change due to the revision of the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	S. Osada	S. Itoh
3	2009.3.31	J KCN-081: (1) Copper, gold, silver and palladium in the scope of survey are deleted from Table 2. (2) More detailed description is given in the note of Table 2-1. (3) External trends are included in Table 2. (4) Item 4: Entirely revised in view of the current state. (5) Description of Table 2: No.15; Benzotriazol is added, which is a Class I Specified Substance by the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc., No.18; the expression relating cobalt chloride is changed, No.19; PFOS is added as prohibited substance, Nos. 34 to 37 deleted, entirely revised, unnecessary explanation is deleted. (6) Form-1 is deleted. (7) Definitions only are given for explanation of the terms.	T.Mitake	S.Itoh
4	2010.8.30	J KCN-085: (1) Item 2 “Scope” is more specifically defined. (2) Change of chemical substance group names in No. 6 of Table 2 and Detailed Description of Table 2. (3) Nos. 20 to 23 added in Table 2 and Detailed Description of Table 2. (4) DBTs and DOTs are also excluded for No.38 of Table 2 and Detailed Description of Table 2. (5) Nos. 39 to 44 are added in Table 2 and Detailed Description of Table 2. (6) Paragraph (2) is added in Item 4. (7) Chemical substances added in No. 15 of Detailed Description of Table 2, according to the revised Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (8) No. 35 “Other Brominated Flame Retardant” only in Detailed Description of Table 2 is shifted to No. 40. (9) No.38 DBTs and DOTs in Detailed Description of Table 2 are shifted to No.20 and No.21 respectively (Change from substances to be controlled to prohibited substances).	T.Mitake	K.Tanabe
5	2011.4.5	J KCN-088: (1) The preamble on page 2 is made simpler and clearer. (2) Item 2 “Scope” is more specifically defined. (3) In Paragraph 3.2.1, the compliance status of the uncontrolled substances in the RoHS Directive is more clearly stated. (4) In Nos. 20 and 21 of Detailed Description of Table 2, “Other DBT compounds” and “Other DOT compounds” are added respectively in compliance with the JGPSSI Ver. 4.11. (5) In No. 39 of Detailed Description of Table 2, new SVHCs are added and the note is revised.	T.Mitake	Yoshikane

Revision History (2/3)

Rev.	Revised Date	Summary	Prepared by	Approved by
6	2011.10.21	JKCN-094: (1) Correction of the erroneous substance name in No. 9 of "Detailed Description of Table 2". (2) No. 20 and No. 21 of "Detailed Description of Table 2," addition of the content threshold of environmental impact substance. (3) Deletion of the substances specified as prohibited in other chemical substance groups in No. 39 of "Detailed Description of Table 2". Addition of SVHCs and change of the note.	T.Mitake	Yoshikane
7	2012.4.19	JKCN-100: (1) JAE Basic Philosophy is reflected in the preamble on page 2. (2) The column of "JGPSSI Substances Group Classification No." of "Table 2" is deleted. (3) Addition of the note that chemical substances of Nos. 20 and 21 in "Table 2" comply with EU rules. (4) REACH SVHCs are newly added to No. 39 of Detailed Description of "Table 2", and the note is revised.	T.Mitake	Yoshikane
8	2012.10.22	JKCN-106: REACH SVHCs are newly added to No. 39 of Detailed Description of "Table 2".	T.Mitake	Yoshikane
9	2013.3.21	JKCN-116: REACH SVHCs are newly added to No. 39 of Detailed Description of "Table 2".	T.Mitake	Yoshikane
10	2013.10.4	JKCN-122: (1) PCTs are added to No.7 of "Table 2" and No.7 of "Detailed Description of Table 2." (2) Some substances in No.39 of "Detailed Description of Table 2" are revised and transcribed to Nos. 4, 16 and 17. (3) REACH SVHCs are newly added to No.39 of "Detailed Description of Table 2." (4) The description below No.39 of "Detailed Description of Table 2" is changed.	T.Mitake	S.Uehara
11	2014.9.2	JKCN-133: (1) New REACH SVHC are added to Nos.16, 34 and 39 of "Table 2." (2) Nos. 35 and 39 of "Detailed Description of Table 2" exclude the substances which are listed in other substance group. (3) New object substances are added to No.15 of "Table 2."	T.Mitake	S.Uehara
12	2016.3.7	JKCN-141: (1) Changes according to the revised directive RoHS 2 are reflected in Paragraph 3.2.2, Nos. 25 and 36 in "Table 2" and Nos. 25, 36 and 41 of "Detailed Description of Table 2." (2) BNST is added in No.24 and the note of "Table 2" and No.24 of "Detailed Description of Table 2." (3) New REACH SVHC is added to Nos. 1 and 41 of "Detailed Description of Table 2." (4) Chemical substances designated by the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. are added to No.15 HBCDD in "Detailed Description of Table 2."	T.Mitake	S.Uehara
13	2017.4.24	JKCN-147: (1) Text of Item 3.2.2 is partially revised and the date of prohibition on delivery of specific phthalates in "Table 2-1", No.25 of "Table 2" and No.25 of "Detailed Description of Table 2" are revised (from July 22, 2019 to April 1, 2018). (2) For PCN under No.8 of "Table 2" and No.8 of "Detailed Description of Table 2", the number of chlorine atoms is revised (from 3 to 2). (3) PAHs are newly added as No.26 of "Table 2" and No.26 of "Detailed Description of Table 2". (4) DIDP and DNOP are added to No.37 of "Detailed Description of Table 2". (5) New REACH SVHCs are added to No.42 of "Detailed Description of Table 2".	Y.Maekawa	S.Uehara

Revision History (3/3)

Rev.	Revised Date	Summary	Prepared by	Approved by
14	2019.4.12	JKCN-177: (1) Changes made following the revision of Annex XVII of REACH regulation. (2) Additional measures to meet REACH SVHC. (3) The prohibited BNST is lifted. (4) REACH SVHCs addition.	Y.Maekawa	Y.Koresawa
15	2020.12.8	JKCN-187: (1) The Ozone Layer Protection Act, reflecting revisions to Soil Contamination Countermeasures Act and European REACH Regulations (2) Regulated substances that apply only to the Water Pollution Control Law are deleted. (3) Requesting business partners of rubber parts / materials to develop efforts was deleted in principle. (4) Added management requirements based on control values for the four specified phthalates.	K.Takayama	Y.Koresawa
16	2022.2.15	JKCN-194: (1) "Total admissible concentration of 4 phthalate esters" 1000ppm added. (2) Analysis data provision is exempted for fluororubber and silicone rubber. (3) Renumbering No.27-47. (4) Deleted "Date of prohibition on delivery: January 1, 2020". (5) Added "US TSCA PBT substance" to "Substances to be prohibited ". (6) 14 substances are newly added following the addition of new SVHC under REACH rules.	K.Takayama	Y.Koresawa
17	2023.2.21	JKCN-203: (1) Addition of "Environmental Policy of the JAE Group (2) Revision of definitions of substances to be avoided in environmental impact substances regulated for use in manufacturing processes. (3) Deletion of containing-avoidance items and reclassification of applicable substances due to review of standards for procurement goods (4) Addition of notes to Table 2 in accordance with Table 2-1 (5) Deletion of the notes in Table 2 due to elimination of application exemptions for PFOS (6) Addition of numbers to notes in Table 2 (7) Adding 10 groups of substances to REACH Rules SVHC	K.Takayama	Y.Koresawa
18	2025.2.20	JKCN-213: (1) Amended the list of prohibited substances with reference to chemSHERPA and added it as an appendix. (2) Added chemSHERPA unlisted regulations. (3) Amended the content threshold of environmental impact substances. (4) Clearly stipulated data for submission.	K.Takayama	Y.Koresawa
19	2025.5.20	JKCN-220: (1) Include list of prohibited substances in the text. (2) Environmental policy: Change of Executive Officer in Charge of Environmental Management JAE Group. (3) Table2: Add prohibited substances(No.25,32,62). and change thresholds(No.2). (4) Table3: Add prohibited substances(No.46~52).	K.Takayama	Y.Koresawa

Green Procurement Guideline

In order to provide our customers with products based on the "JAE Group Environmental Policy", the JAE group will use materials and parts that have minimal impact on the environment.

JAE Group Environmental Policy

Basic Philosophy

The JAE Group will, as a good corporate citizen, contribute to the attainment of a prosperous, sustainable, recycling-based society by fulfilling its corporate social responsibility through environmentally friendly business activities and respect for the natural environment and biological diversity.

Basic Guidelines

The JAE Group recognizes the significance of the 21st century as “the environmental century” and is fully aware of the environmental impact caused by procurement, development, manufacturing, sales, and logistics activities relating to electronic devices, including connectors—its main product—as well as user interface-related products, electronic devices for avionics and aerospace, optical products, and panel units. Accordingly, the group will practice environmental management according to the following policies in order to help build a sustainable society:

1. Establish environmental targets, and execute plans for improvement. Furthermore, prevent pollution and continually improve environmental management activities through the periodic revision of these goals and targets, and applying a framework to them.
2. Fulfill all compliance obligations of the JAE Group, establish voluntary standards as needed, and strive to improve efforts to preserve the environment.
3. Establish an environmental management organization and management structure headed by the Executive Officer in Charge of Environmental Management. This organization shall be responsible for ensuring that corporate regulations for environmental management are kept up to date at all times.
4. Promote green procurement, striving to reduce the environmental impact of greenhouse gases, waste, and other elements at the product-design stage and to reduce the use of natural resources and toxic substances.
5. Conduct periodic internal environmental audits and strive to improve environmental management systems to boost environmental performance.
6. Disclose JAE technologies for improving the environment and environmental-management data as necessary.

Revised April 1, 2025

Seiji Takahashi

Associate Senior Vice President

Executive Officer in Charge of Environmental Management JAE Group

1. Purpose

For materials, parts, etc. procured by JAE Group (hereinafter called “JAE”) from suppliers, this Guideline provides the basis for procuring green parts, etc.

In case of any conflict between the criteria in this Guideline and detailed specifications of parts, etc. for productions requested from JAE, the detailed specifications shall govern.

Moreover, the criteria of this Guideline will be revised on an as-needed basis according to changes in future laws/regulations or the social situation.

2. Scope

This Guideline applies to raw materials, parts and packaging materials used for products to be sold or supplied by JAE, and to the supplementary materials, etc. used in their manufacturing processes. If JAE deems that it may be possible for hazardous substances to adhere to the materials through contact with products, equipment, jigs and tools, measuring instruments, desk equipment, etc. which are used in the manufacturing process, they are also in the scope of this Guideline.

3. Fundamental view of green procurement

The green procurement of parts, etc. to be obtained from suppliers consists of the following two criteria.

- (1) Establishment of an environmental preservation scheme (Establishment of environmental management system)
- (2) Criteria on procured products (Use of any substance that impacts the environment is not permissible)

3.1 Establishment of supplier's environmental preservation scheme

3.1.1 Establishment of environmental management system

Suppliers need to establish an environmental management system.

The environmental management system means a system according to the international standard [ISO 14001 (Environmental management system)] or an original environmental management system established by the supplier (any kind of system is acceptable.)

The original environmental management system shown above shall meet the following criteria:

- The executive has announced the policy of environmental preservation in a certain form.
- A person has been assigned to environmental management and the environmental management organization has been established within the supplier.
- Environmental impact shall be understood and efforts for reducing environmental impact shall be made at all times.
- Meetings shall be held for environmental management activities periodically.

3.1.2 Activities for recovery/recycling of materials used, packing, packing materials

Actively recover and recycle used materials, packing materials, etc.

3.1.3 Actions for ozonosphere protection and prevention of global warming

Engage energetically in the battle against global warming, including fully phasing out ozone-depleting substances, cutting back on use of greenhouse effect substances, and adopting energy-saving activities regulated by the Montreal Protocol.

3.1.4 Substances that impact the environment and are restricted in the manufacturing processes

Use of environmental impact substances is restricted in the manufacturing processes and shall be controlled according to the following classification of (1) to (3). The designations of these substances that impact the environment are listed in Table 1 and Table 1-1.

- | | |
|-------------------------------|--|
| (1) Prohibited substances: | The substances absolutely prohibited for use in the manufacturing processes of parts, etc. by laws/regulations, etc. |
| (2) Substances to be avoided: | Substances to be avoided or reduced as much as possible in the manufacturing process of parts, etc. |
| (3) Uncontrolled substances: | The relevant substances are listed in Table 1-1, and must be omitted from restrictions due to technological difficulties at present. Suppliers are requested to continue to make efforts to find alternatives or cut back usage of these substances. |

3.2 Criteria for procured products

3.2.1 Prohibited and controlled chemical substances in procured products

Chemical substances to be prohibited or controlled from being contained in procured items shall be managed according to the following classifications (1) and (2).

The term “contained substances” used herein means substance contained in a part, etc. It represents not only substances intentionally added and/or filled into such part, etc. for the purpose of improving performance/function, but also applies to substances not intentionally added and/or filled, such as reaction residues or impurities.

Provided, however, that the substances used in a manufacturing process but not contained in a procured product shall not be included within the scope of this Guideline and the uncontrolled substances as specified in the RoHS Directive shall be exempted from this Guideline in accordance with the applicable laws and regulations.

These chemical substances are chosen for the reason of legal regulations, a substance that might possibly affect environment, health, or hygiene and safety.

- (1) Substances prohibited from inclusion: Substances which are forbidden from inclusion into parts, etc. by laws/regulations, etc.
These substances are listed in Table 2 and Table 3.
- (2) Substances whose inclusion should be controlled: Substances whose inclusion in parts, etc. must be controlled.
 - (i) Substances subject to chemSHERPA(*) control, excluding the prohibited substances in Table 2 and Table 3 above.
 - (ii) Red phosphorus (CAS registration number: 7723-14-0)

(*) For information on chemSHERPA, see section 3.2.2.

3.2.2 Data for submission

To confirm the applicability/non-applicability of “Prohibited substances” and “Substances whose inclusion should be controlled” as indicated in this Guideline, suppliers shall be required to submit the following data:

- (1) Data on chemical substances contained in products

- Automotive applications: IMDS

IMDS (International Material Data System) is a data repository that contains information on materials used by the automotive industry.

Data can be created at the URL below. Suppliers will be contacted if IMDS data is required.

<https://public.mdsystem.com/ja/web/imds-public-pages/create/>

- Other applications: the latest versions of chemSHERPA-AI or chemSHERPA-CI

JAE Production Support and Environmental Planning Div. Proprietary.

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chemSHERPA-AI: article information

Information on ingredients and legal compliance decisions (including Substances of Concern in Products (SCIP) information in cases when SVHC are contained)

chemSHERPA-CI: chemical information

Information on ingredients

chemSHERPA is a data entry support tool operated by JAMP (Joint Article Management Promotion Consortium). It is used to disclose and disseminate through the supply chain information on chemical substances contained in products. The data entry support tool, reference lists of controlled substances, etc., can be downloaded from the URL below. Suppliers will be contacted if chemSHERPA data is required.

<https://chemsherpa.net/tool>

(2) Phthalate esters (BBP, DBP, DEHP, DIBP) analysis data

To check for phthalate ester contamination, as a rule, rubber parts other than fluororubber and silicone rubber must be delivered accompanied with analysis data for each material lot or molding lot used.

In addition, as a rule, the kneading trader “A” for rubber materials shall be a phthalate-free plant.

As for the analysis, a concentration of less than 500 ppm shall be judged as a non-containing case according to the IEC62321-8 screening method.

Cases with concentration of more than 500 ppm shall be re-examined using a verification method (precision analysis), and the supplier shall submit evidence that the concentration is less than a threshold of 1000 ppm.

Suppliers may be requested to provide analytical data and evidence other than those listed above, as well as certificates of non-use. JAE will request appropriate responses from suppliers in such cases.

3.2.3 Continuous procurement of materials/parts containing substances that impact the environment

(1) Prohibited substances

In order to meet our customers’ requests, procurement of materials/parts containing prohibited substances may be continued. In such cases, JAE will identify such substances and also ask suppliers for cooperation.

(2) Substances whose inclusion should be controlled

Although JAE will respond individually to the prohibited substances designated by our customers, JAE will also ask suppliers for cooperation to identify contained materials/parts as in the case of (1) above.

3.2.4 Substances of Very High Concern (SVHC) under European REACH rules

Since substances under SVHC are included as required (two times a year), for the newest information, please refer to the website of the European Chemical Agency (ECHA):

<https://echa.europa.eu/candidate-list-table>

4. Implementation of the green procurement plan

According to Item 3 above, the supplier is requested to submit information on inclusion of substances in their materials and parts. The information offered is evaluated by JAE, maintaining full confidentiality. The specific actions are as follows.

- (1) For substances that impact the environment contained in the parts, etc., suppliers are requested to fill the questionnaire only for the items JAE will need, after the supplier has received the request separately. If some change is made to supplier’s description, the supplier should inform JAE’s contact in the procurement sector regarding details of the change.

- (2) The supplier is requested to submit information whenever a new environmental substance is added according to some change in domestic and/or foreign environmental regulations relating to the products.
- (3) A memorandum for green procurement will be separately prepared and concluded between the supplier concerned and JAE.
- (4) If the supplier procures parts and/or materials from a subcontractor (or sub-subcontractor), the supplier is requested to prepare answers to the green procurement survey, referring to information obtained from the subcontractor.

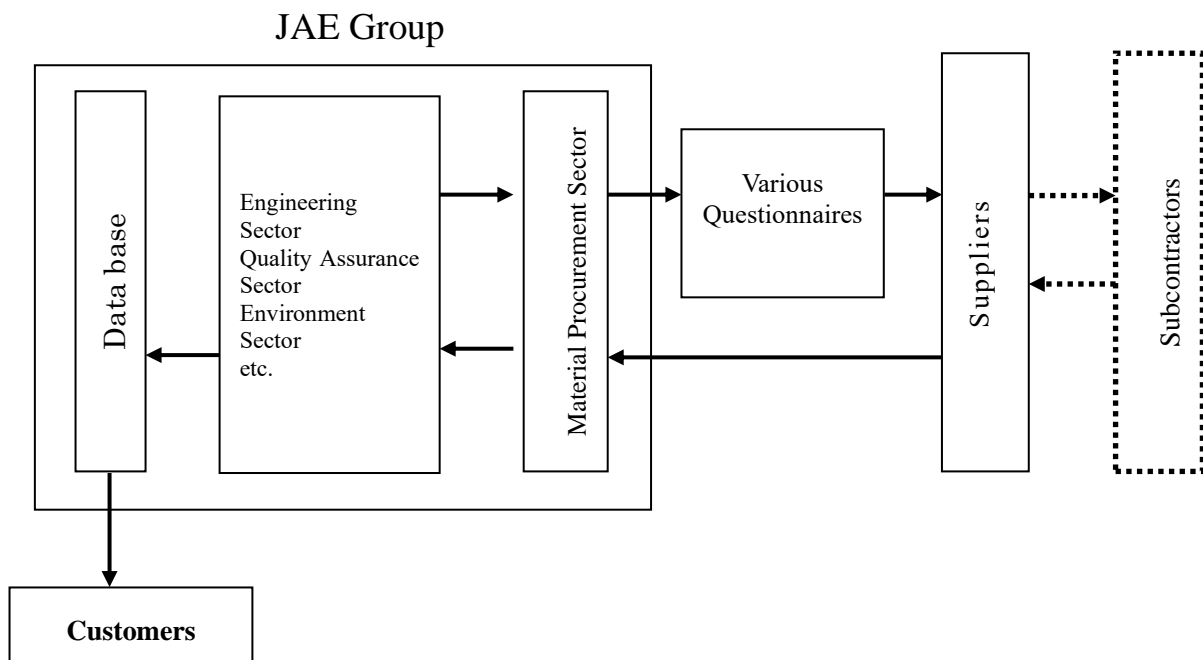


Table 1.Environmental impact substances being restricted in manufacturing process

Classification	No	Substance name	CAS No.	Evidence
Prohibited substances (18 items)	1	CFC	-	Montreal Protocol, ODC (Ozone-Depleting Chemicals)
	2	1, 1, 1-trichloroethane	71-55-6	
	3	Carbon tetrachloride	56-23-5	
	4	Halon	-	
	5	HBFC	-	
	6	HCFC	-	
	7	Bromochloromethane	74-97-5	
	8	Methyl bromide (Bromomethane)	74-83-9	
	9	Trichloroethylene	79-01-6	Soil Pollution Countermeasures Law
	10	Tetrachloroethylene	127-18-4	
	11	Dichloromethane (Methylene chloride)	75-09-2	
	12	1, 1, 2-trichloroethane (Ethylene chloride)	79-00-5	
	13	1, 2-Dichloroethane	107-06-2	
	14	1, 1-Dichloroethylene (Vinylidene chloride)	75-35-4	
	15	1, 2-Dichloroethylene	540-59-0 156-59-2 156-60-5	
	16	1,3-Dichloropropane	542-75-6	
	17	Benzene	71-43-2	
	18	Chloroethylene	75-01-4	
Substances to be avoided (2 items)	19	PFC (Perfluorocarbon)	-	Global warming substance (Alternatives for chlorofluorocarbon)
	20	HFC (Hydrofluorocarbon)	-	

Table 1-1.Uncontrolled substances

No	Substance name	Application	Restriction
1	ODC	Cooling medium for air conditioners and freezing machines	New installation is not permissible.
2	PFC, HFC	Semiconductor etching gases	Compliance with its cutback target, feasibility study on degradation and recovery
3	Methylene chloride	For use in polycarbonate production processes	Solvent for polymerization
4	Chloroethylene	Polyvinyl chlorid production	Resin raw materials

Table 2.Prohibited Substances List

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
1	Asbestos	SG001	All	Intentionally added [ReportingLevel:Product]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Toxic Substances Control Act (TSCA); [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
2	Azocolourants and azodyes which form certain aromatic amines	SG002	Textiles and Leather	Intentionally added [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
3	Cadmium/Cadmium compounds	SG006	All, except batteries	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Batteries	0.001% by weight of battery [ReportingLevel:Product Part]	[EU] Battery Directive 2006/66/EC; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation)
			Video display devices, with a screen size of greater than four inches	0.01 mass% of total Cd in homogenous material [ReportingLevel:Material]	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
4	Chromium (VI) Compounds	SG008	All	0.1 mass% of total Cr+6 in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources;
			Video display devices, with a screen size of greater than four inches	0.1 mass% of total Cr+6 in homogenous material [ReportingLevel:Material]	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
5	Dibutyltin (DBT) compounds	SG009	All	0.1 mass% of tin in the part [ReportingLevel:Product Part]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
6	Diocetyl tin (DOT) compounds	SG010	(a) textile and leather articles intended to come into contact with the skin, (b) childcare articles, (c) two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 mass% of tin in the part [ReportingLevel:Product Part]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
7	Fluorinated Greenhouse Gases (PFC, SF ₆ , HFC)	SG012	All	Intentionally Added [ReportingLevel:Product]	[EU] REGULATION (EU) No 517/2014 on fluorinated greenhouse gases
8	Hexabromocyclododecane (HBCDD)	SG013	All	Intentionally added or 0.01 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004
9	Lead/Lead Compounds	SG014	All, except batteries	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
					for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Consumer products designed or intended primarily for children 12 years of age or younger	0.01 mass% [ReportingLevel:Product]	[USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
			Paint and similar surface coatings of toys and other articles intended for use by children	0.009 mass% of surface coating material [ReportingLevel:Material]	[USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
			Cables/cords with thermoset or thermoplastic coatings	0.03 mass% of surface coating material [ReportingLevel:Material]	[USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
			Batteries	0.004 mass% of battery [ReportingLevel:Product Part]	[EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009
			Video display devices, with a screen size of greater than four inches	0.1 mass% of total Pb in homogenous material [ReportingLevel:Material]	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
10	Mercury/Mercury Compounds	SG019	All, except batteries	Intentionally Added or 0.1 mass% of total Hg in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Canada] Products containing Mercury regulations SOR/2014-254
			Batteries	Intentionally added or 0.0001 mass% of battery [ReportingLevel:Product Part]	[EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009; [Taiwan (Province of China)] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [USA New York] Environmental Conservation Law, Battery management and disposal § 27-0719
			Batteries	0.0005 mass% of total Hg in homogenous material [ReportingLevel:Material]	[Canada] Products containing Mercury Regulations SOR/2014-254
			Video display devices, with a screen size of greater than four inches	0.1 mass% of total Hg in homogenous material [ReportingLevel:Material]	[USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
11	Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others)	SG021	All	Intentionally Added [ReportingLevel:Product]	[EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009; [Japan] Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures; [USA] Clean Air Act; (Treaty) Montreal Protocol on Substances that Deplete the Ozone Layer
12	Perfluorooctane sulfonates (PFOS)	SG023	Textiles or other coated materials.	Intentionally added or 1 microgram/m2 of coated material [ReportingLevel:Material]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
13	Perfluorooctane sulfonates (PFOS)	SG023	All except textiles or other coated materials.	Intentionally added or 0.1 mass% of the part (as the sum of PFOS) [ReportingLevel:Material]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
14	Phthalates, Selected Group 1 (DEHP, DBP, BBP, DIBP)	SG024	Children's toy or child care article	0.1 mass% as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
15	Phthalates, Selected Group 2 (DIDP, DINP, DNOP)	SG025	Children's toy or child care article that can be placed in a child's mouth	0.1 mass% as the sum of the phthalate concentrations in plasticized material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
16	Polybrominated biphenyls (PBB)	SG026	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources
17	Polybrominated diphenyl ethers (PBDE)	SG027	All	0.1 mass% in homogenous material or Intentionally added [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
18	Polychlorinated Biphenyls (PCBs) and specific substitutes	SG028	All	Intentionally added [ReportingLevel:Product]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
19	Polychlorinated Terphenyls (PCTs)	SG029	All	0.005 mass% in material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
20	Polychlorinated naphthalenes	SG030	All	Intentionally added [ReportingLevel:Product]	[EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
21	Radioactive substances	SG031	All	Intentionally added [ReportingLevel:Product]	[USA] Nuclear Regulatory Commission Regulations Title 10 CFR Part 20; [Japan] Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors; [Japan] Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc.; [EU] Directive 2013/59/Euratom
22	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	SG034	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922; [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
23	Tri-substituted organostannic compounds	SG035	All	Intentionally added or 0.1 mass% of tin in the part [ReportingLevel:Product Part]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922
24	Nickel/Nickel Compounds	SG047	All, where prolonged skin contact is expected	Intentionally Added [ReportingLevel:Product]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
25	Perfluorohexane-1-sulphonic acid and its salts	SG048	All	Intentionally added or 0.0000025 mass% of PFHxS or any of its salts in article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021
26	Perfluorooctanoic acid and its salts	SG054	All	Intentionally added or 0.0000025 mass% of PFOA including its salts in article or mixture [ReportingLevel:Article, Mixture]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Korea (the Republic of)] Persistent Organic Pollutants Control Act

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
27	PFOA-related compounds	SG055	All	Intentionally added or 0.0001 mass% of one or a combination of PFOA-related compounds, in article or mixture [ReportingLevel:Article, Mixture]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Korea (the Republic of)] Persistent Organic Pollutants Control Act
28	Halogenated Flame Retardants	SG058	enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres	0.1 mass% of halogen content in homogeneous material [ReportingLevel:Material]	[EU] Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays
29	C9-C14 PFCAs and their salts	SG065	All	0.0000025 mass% for the sum of C9-C14 PFCAs and their salts in Article or Mixture [ReportingLevel:Article, Mixture]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
30	C9-C14 PFCA-related substances	SG066	All	0.000026 mass% for the sum of C9-C14 PFCA-related substances in Article or Mixture [ReportingLevel:Article, Mixture]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
31	Pentachlorophenol and its salts and esters	SG070	All	Intentionally added or 0.0005 mass% of PCP including its salts and esters in article or mixture [ReportingLevel:Article, Mixture]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
32	PFHxS-related compounds	SG072	All	Intentionally added or 0.0001 mass% of one or a combination of PFHxS-related compounds in article [ReportingLevel:Article]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021
33	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
34	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
35	Beryllium Oxide	1304-56-9	All	0.1 mass% [ReportingLevel:Product]	(Guidance) EICTA, CECED and EERA Joint Position : Guidance on implementing article 11 of Directive 2002/96(EC) concerning information for treatment facilities
36	Benzo[e]pyrene (BeP)	192-97-2	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
			repetitive skin or oral cavity contact		
37	Benzo[j]fluoranthene (BjFA)	205-82-3	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
38	Benzo[b]fluoranthene (BbFA)	205-99-2	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
39	Benzo[k]fluoranthene (BkFA)	207-08-9	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
40	Chrysene (CHR)	218-01-9	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
			contact except those for toys or childcare articles		
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
41	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
42	Formaldehyde	50-00-0	(a) clothing or related accessories, (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing, (c) footwear	0.0075 mass% in homogenous material [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
43	Benzo[a]pyrene (BaP)	50-32-8	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
44	Dibenzo[a,h]anthracene (DBaH)	53-70-3	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
			repetitive skin or oral cavity contact		
45	Bis(tributyltin) oxide (TBTO)	56-35-9	All	Intentionally added or 0.1 mass% of article [ReportingLevel:Article]	[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
46	Benzo[a]anthracene (BaA)	56-55-3	Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	0.0001 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
			Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	0.00005 mass% of the plastic or rubber part [ReportingLevel:Material]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
47	Dimethylfumarate (DMF)	624-49-7	All	0.00001 mass% of the part [ReportingLevel:Product Part]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
48	Phenol, Isopropylated Phosphate (3:1) (PIP (3:1))	68937-41-7	All	Intentionally added [ReportingLevel:Product]	[USA] Toxic Substances Control Act (TSCA)
49	Diisobutyl phthalate	84-69-5	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
50	Dibutyl phthalate (DBP)	84-74-2	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
51	Benzyl butyl phthalate (BBP)	85-68-7	All	0.1 mass% in homogenous material [ReportingLevel:Material]	[EU] RoHS Directive 2011/65/EU and its amendments; [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation
52	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")	—	All	Intentionally added [ReportingLevel:Product]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU)
53	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	All	Intentionally added [ReportingLevel:Product]	[EU] Persistent Organic Pollutants (POPs) Regulation (EU)
54	Four heavy metals (cadmium/hexavalent chromium/lead/mercury, and compounds of each)	—	Packaging	Intentionally added or 0.01 mass% (100ppm) of total cadmium, lead, hexavalent chromium, and lead in homogenous material	[EU] European Parliament and Council Directive 94/62/EC on packaging and packaging waste. [USA] Model Toxics in Packaging Legislation

No	Substance/Substance group	CAS No. /Substance group ID	Reporting usage	Threshold denominator	Referenced laws & regulations
55	Arsenic compounds	—	Wood preservatives	Intentionally added	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII (restricted substances)
56	Cobalt chloride	—	Indicators in desiccants	Intentionally added	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII (restricted substances)
57	Polyvinyl chloride/ polyvinylidene chloride	—	Packaging	Intentionally added (unless no alternative materials are available, e.g. sticks)	[Korea (the Republic of)] Act on the Promotion of Saving and Recycling of Resources
58	Mineral oil aromatic hydrocarbons (MOAH) containing 1-7 aromatic rings	—	Packaging, printed matter	0.1 mass% (1000ppm) in ink	[France] Anti-waste and Circular Economy Law
59	Mineral oil aromatic hydrocarbons (MOAH) containing 3-7 aromatic rings	—	Packaging, printed matter	0.0001 (1ppm) mass% in ink	[France] Anti-waste and Circular Economy Law
60	Mineral oil saturated hydrocarbons (MOSH) with 16-35 carbon atoms	—	Packaging, printed matter	0.1 mass% (1000ppm) in ink	[France] Anti-waste and Circular Economy Law
61	Phthalate esters Group 1 (BBP, DBP, DEHP, DIBP)	SG024	Products not subject to RoHS Directive regulations (e.g. packaging materials)	0.1 mass% (1000ppm) of plasticised materials as total phthalate esters [Reporting Level: Product]	[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII (restricted substances)
62	Class I Specified Chemical Substances by the Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.(except the Substances Specified by Other Chemical Substance Groups)See Table 3.	—	All	Intentionally added [ReportingLevel:Product]	[Japan] Chemical Substances Control Law Class 1 Specified Chemical Substances

Table 3.Prohibited Substances List :

Class I Specified Chemical Substances by the Law Concerning the Evaluation
of Chemical Substances and Regulation of Their Manufacture, etc.

(except the Substances Specified by Other Chemical Substance Groups)

No	Substance name	CAS No..
1	(1R,2R,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	138257-18-8
2	(1R,2R,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	678970-17-7
3	(1R,2R,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	138257-17-7
4	(1R,2R,5S,6R,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	678970-15-5
5	(1R,2S,5R,6S,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	678970-16-6
6	(1R,2S,5S,6R,9S,10S)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	138257-19-9
7	(1R,2S,5S,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane (HBCDD)	169102-57-2
8	(3r,5aR,6R,9S,9aS)-6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-3H-6,9-methano-2,4,3-benzodioxathiepine=3-oxide	33213-65-9
9	(3s,5aR,6R,9S,9aS)-6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-3H-6,9-methano-2,4,3-benzodioxathiepine=3-oxide	959-98-8
10	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3
11	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene	128-10-9
12	1,2,3,4,5-Pentachlorobenzene	608-93-5
13	1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	57-74-9
14	1,4,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5566-34-7
15	1,5,7,8,9,10,10-Heptachlorotricyclo[5.2.1.0(2,6)]deca-3,8-diene	76-44-8
16	1,8,9,10,11,11-Hexachloro-4-oxatetracyclo[6.2.1.0(2,7).0(3,5)]undec-9-ene	6058-23-7
17	1,9,10,11,12,12-Hexachloro-5-oxo-4,6-dioxo-5λ(4)-thiatricyclo[7.2.1.0(2,8)]dodec-10-ene	115-29-7
18	2,2,2-Trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol	10606-46-9
19	2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol	115-32-2
20	N-(Dimethylphenyl)-N'-tolyl-1,4-phenylenediamine	70290-05-0
21	N,N'-Di-2-tolyl-1,4-phenylenediamine	15017-02-4
22	N,N'-Di-4-tolyl-1,4-phenylenediamine	620-91-7
23	N,N'-Ditolyl-1,4-phenylenediamine	27417-40-9
24	N,N'-Bis(dimethylphenyl)-1,4-phenylenediamine	28726-30-9
25	r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane	58-89-9
26	r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane	319-84-6
27	r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane	319-85-7
28	rel-(1aR,1bS,2R,5S,5aR,6S,6aS)-2,3,4,5,6,6a,7,7-Octachloro-1a,1b,5,5a,6,6a-hexahydro-2H-2,5-methanoindeno[1,2-b]oxirene	27304-13-8
29	rel-(1R,2R,3R,6S,7S,8S)-1,8,9,10,11,11-Hexachlorotetracyclo[6.2.1.1(3,6).0(2,7)]dodeca-4,9-diene	309-00-2

No	Substance name	CAS No..
30	rel-(1R,2R,3R,6S,7S,8S,9S,11R)-3,4,5,6,13,13-Hexachloro-10-oxapentacyclo[6.3.1.1(3,6).0(2,7).0(9,11)]tridec-4-ene	72-20-8
31	rel-(1R,2S,3R,4R,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-74-2
32	rel-(1R,2S,3R,4S,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-71-9
33	rel-(1R,2S,3S,6R,7R,8S,9S,11R)-3,4,5,6,13,13-Hexachloro-10-oxapentacyclo[6.3.1.1(3,6).0(2,7).0(9,11)]tridec-4-ene	60-57-1
34	rel-(1R,2S,5R,6S,9R,10S)-1,2,5,6,9,10-Hexabromocyclododecane	4736-49-6
35	rel-(1R,2S,5R,6S,9S,10R)-1,2,5,6,9,10-Hexabromocyclododecane	65701-47-5
36	rel-(1R,4S,7S,8S,10S)-2,3,4,5,6,10-Hexachlorotricyclo[5.2.1.0(4,8)]deca-2,5-diene	56641-38-4
37	rel-(1R,4S,7S,8S,9S)-2,3,4,5,6,9-Hexachlorotricyclo[5.2.1.0(4,8)]deca-2,5-diene	56534-03-3
38	Chlordane	12789-03-6
39	Toxaphene	8001-35-2
40	Hexabromocyclododecanes	1027045-74-4
		1093632-34-8
		1235106-66-7
		1380399-84-7
		1380399-85-8
		1380399-86-9
		1380399-87-0
		1392102-29-2
		1392102-30-5
		1392102-31-6
		673456-49-0
		74398-41-7
		878049-04-8
		878049-05-9
		878049-06-0
		878049-07-1
		878049-08-2
41	Perchlorobuta-1,3-diene	87-68-3
42	Perchlorobenzene	118-74-1
43	Perchloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decane	2385-85-5
44	Perchloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decan-5-one	143-50-0
45	N,N'-(Mixed phenyl and tolyl) derivatives of benzene-1,4-diamine	68953-84-4
46	1,1,1-Trichloro-2,2-bis(3-methoxyphenyl)ethane; Methoxychlor	1348358-72-4
47	(R)-1,1,1-Trichloro-2-(2-methoxyphenyl)-2-(4-methoxyphenyl)ethane; Methoxychlor	255065-25-9
48	(S)-1,1,1-Trichloro-2-(2-methoxyphenyl)-2-(4-methoxyphenyl)ethane; Methoxychlor	255065-26-0
49	1,1,1-Trichloro-2-(2-methoxyphenyl)-2-(4-methoxyphenyl)ethane; Methoxychlor	30667-99-3
50	1,1,1-Trichloro-2-(3-methoxyphenyl)-2-(4-methoxyphenyl)ethane; Methoxychlor	59424-81-6
51	1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane; Methoxychlor	72-43-5
52	1,1,1-Trichloro-2,2-bis(2-methoxyphenyl)ethane; Methoxychlor	76733-77-2