

Green Procurement Standard	Document No.	GEW-0003
	Issued	March 31, 2004
	Revised	March 30, 2018
	Version	12.0

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Note: We will send survey forms (documents to be submitted) when we request you to conduct a survey.

* The survey forms can be downloaded from the following website.
<http://ce.citizen.co.jp/e/csr/environment/green.html>

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Introduction

Citizen Electronics has recognized that the environmental protection issue is one of the important items on an agenda shared by the entire human race and promotes 'Environmentally-Friendly Activities' and 'Supply of Environmentally-Friendly Products' when we conduct our corporate activities.

In order to supply environmentally-friendly products, it is necessary to consider the effect on the environment starting with the product design phase. For hazardous chemical substances, among others, 'Upstream Management' is essential. This includes verification of non-use of hazardous chemical substances in parts or materials and confirmation of supplier's activity status. Therefore, we issued 'Green Procurement Standard' in 2004 and continue to revise them according to changes in the environment in which we operate.

In order to comply with relevant environmental laws and regulations or customer requirements that become increasingly severe, cooperation from each of our suppliers is needed.

We sincerely appreciate your continued understanding of the main purpose and description of Citizen Electronics Green Procurement and look forward to your further cooperation.

1. Purpose

This procurement standard specifies Citizen Electronics' basic point of view concerning 'Green Procurement' and detailed criteria and management. The standard is intended to encourage green procurement by giving preference to purchasing from suppliers who actively promote environmentally-friendly activities.

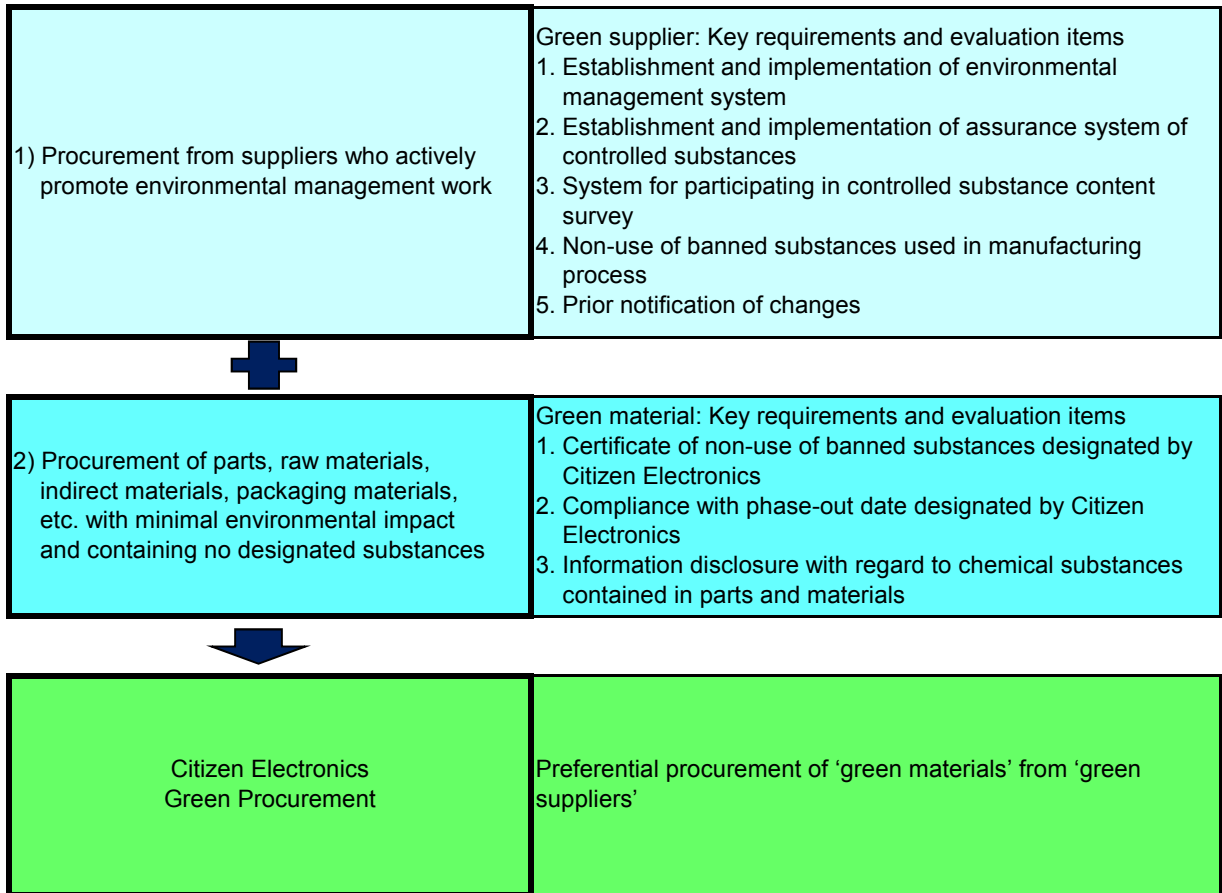
2. Scope

This procurement standard applies to all products purchased by Citizen Electronics Co., Ltd.

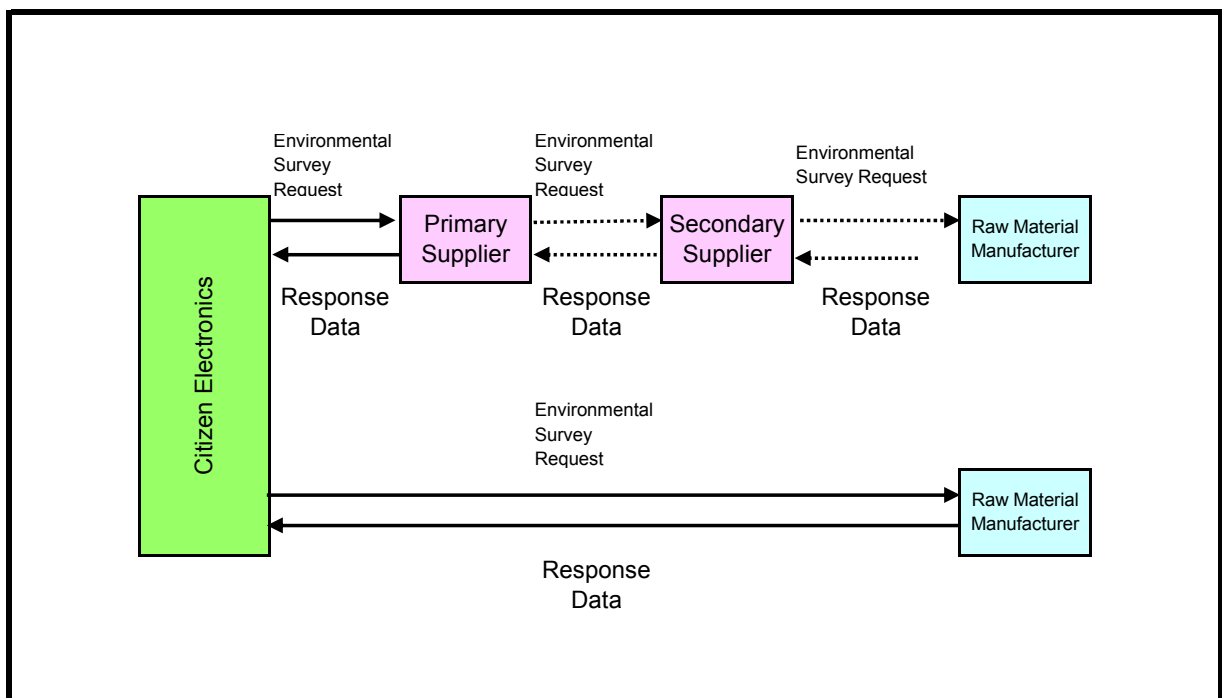
3. Definitions of Terms

Terms	Definitions	
Environment-affecting substances to be controlled ('controlled substances')	Among the substances contained in parts and materials or used in the manufacturing process, "environment-affecting substances to be controlled ("controlled substances")" are those, which, according to Citizen Electronics' list of designated substances to be controlled, have significant environmental impact on both humans and the global environment. These substances are classified as follows.	
	Banned substances	Substances of which use and manufacture are banned by national and international laws and regulations, and whose presence in or adhesion to supplied products is also banned without conditions (see Appendix 2).
	Substances to be controlled	Substances, which are target substances of national and international laws and regulations or our self-imposed regulations. A ban/threshold is set out for each application (see Appendix 3).
	Monitored substances	Substances of which the consumption needs to be monitored and for which consideration with regard to human health, safety and hygiene, adequate treatment, etc is needed. The intentional use of these substances is not restricted, but their use and concentration should be monitored. (see Appendix 4).
	Substances banned in manufacturing processes	Substances of which use is banned in the production process of parts and the raw material.
Contained	"Contained" is a situation in which a substance is added to, is blended with, fills up, or adheres to: a) The parts or materials employed in products, or b) The materials used for the parts or devices, regardless whether the situation is intentionally created or not. When a substance is unintentionally contained in, or added to a product in a processing process or a packaged product, this situation is also regarded as "Contained". There are substances called Dopants (Doping Agents) that are intentionally added to manufacture semiconductor devices, etc. They are not treated as "Contained" if present in the devices in a very small amount.	
Impurity	An "Impurity" is a substance that satisfies either or both of the following conditions: a) One contained in a natural material, which cannot be completely removed in a refining process by technical means (i.e. natural impurities); and b) One generated in a synthesis process, which cannot be completely removed by technical means. There are substances called "impurities", the name of which is used to distinguish them from main materials. If they are used for the purpose of changing the characteristics of a material, they are treated as "Contained". Note: The 'controlled substance', which mingles with or adheres to parts or materials as an "Impurity", must not exceed its allowable threshold level specified in Appendix 3.	
Plastics	Plastics refer to materials and raw materials composed of synthetic high-molecular polymers in this Standard. More specifically, "plastics" mainly refer to the following articles composed of synthetic high-molecular polymers: resins, films, adhesives, adhesive tapes, molded products, products made of synthetic rubber, and plastics made from raw materials of plant origin. * When a natural resin is synthesized with any one of the above articles, the synthetic substance is a plastic.	

4. Green Procurement Procedures



Primary suppliers are expected to take responsibility for requesting that secondary suppliers comply with the provisions of the Citizen Electronics Green Procurement Standard.



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5. Request to Suppliers (Data Submission and Other Requirements)

When 'supplier' and/or 'parts and materials' are newly selected or changed, we conduct a prior evaluation and qualification. Please submit the following data, and please note that there will be additional requests from time to time.

When any change, including any addition, in materials or parts of supplied products, production site/office, process or specification exists, please notify the division of our company that is responsible in advance.

5.1 Submission data (Suppliers are requested to send submissions in the form of electronic files directly to the division responsible at Citizen Electronics.)

Submission data	Procedures
Environmental Management Activity Survey Form	Self-assessment is required to be a 'Green Supplier'. Note that the forms are sent separately by the Purchasing Division of Citizen Electronics.
Certificate of Non-Use of Banned Substances	If supplied parts and materials meet the following conditions: Any substance specified in the 'banned substances' is not contained, or its content is less than threshold levels.
JAMP MSDSplus or JAMP AIS	Please provide information on chemical substances contained in parts and materials (use, content, purpose of use, component, etc.). [Submission format] JAMP MSDSplus or JAMP AIS (we will designate either of the formats when we request you to submit data) [Request for entering information in the JAMP AIS and JAMP MSDSplus formats] - Contents to be reported (Composition List) Please make sure that all of the contained substances that laws and regulations apply to are entered. In order to reduce the burden of resurvey when SVHC is added, please disclose full details of voluntary declarable substances. For details on how to enter data, please see the "Explanatory information for how to enter data in the [MSDSplus] and [AIS] to be submitted to Citizen Electronics Co., Ltd."
chemSHERPA-AI/CI	It is allowed to submit data by chemSHERPA-AI/CI like the tools above recommended by JAMP from around October 2017, but you must use chemSHERPA-AI/CI from April 1st, 2018. For details on chemSHERPA and chemSHERPA-AI/CI, please see the following URL: https://chemsherpa.net/chemSHERPA/
Safety Data Sheet (SDS) or Mill Sheet	[Request for information] - SDS: Information sheet for items such as a chemical substance name, physical and chemical characteristics, hazardous property, handling instructions, etc. - Mill Sheet: Inspection certificate of steel products
Data of detailed analysis	See Appendix 7, 'Submission of data of detailed analysis.'
Specified chemical substances	Please check to determine whether specified substances are contained or not (the forms are attached to be used as needed).
Application form for permission to use recycled materials	Recycled materials are not allowed to be used without approval obtained from CITIZEN ELECTRONICS CO., LTD. When recycled materials are used, please submit an application form for permission to use recycled materials.

5.2 Handling of data

Note that Citizen Electronics may forward any information provided by suppliers to its own customers.

5.3 Expired date and update management

- Please submit an updated version if any change is made in SDS.
- Data of detailed analysis is valid for one year after the measurement. Please update yearly.

5.4 In cases where another response is required due to requirements different from those contained in this standard

As needed, depending on the customer's specific requirements or national and international laws and regulations, another response may be required to satisfy the requirements different to those of these standards including the appendix (e.g. substances, threshold levels or formats).

See Appendix 5, 'Survey on certain substances designated by customer's requirements.'

5.5 Inclusion in specifications, etc.

Please specify "This product complies with Green Procurement Standard (GEW-0003) issued by Citizen Electronics" in specifications/drawings submitted to us.

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6. In cases where any product is found not to comply with our environmental requirements

In cases where it is found that any of our banned substances are or might be contained in products supplied to us, please inform us immediately.

7. In cases where any change has occurred

In cases where any change has occurred in products supplied to us, please inform the person responsible in our Purchasing Division in advance.

8. Revision of Green Procurement Standard

Information in this procurement standard is subject to change without notice.
For the latest version of "Green Procurement Standard" (including Appendix), please access our website.
<http://ce.citizen.co.jp/csr/environment/green.html>

9. Contact for Inquiries

For inquiries regarding the content of the Green Procurement Standard, please contact:
ISO Systems Section, Quality Management Division, Citizen Electronics Co., Ltd.
TEL: +81-555-22-9910
E-mail: kankyo@ce.citizen.co.jp

10. Revision History

Revision	Date	Description	Approved	Inspected	Prepared
11.0	April 28, 2017	<p>1) General "Green Procurement Standard" (GEW-0003) and "Green Procurement Standard Appendix" integrated. The "Contents" of "Green Procurement Standard Appendix" deleted.</p> <p>2) Contents "Appendix 1" to "Appendix 8" added. "Note" revised.</p> <p>3) Page 4 The location of "1"(note) moved. "chemSHERPA-AI/CI" added.</p> <p>4) Page 5 "Request for information" added to "SDS/Mill Sheet". "Citizen Electronics Co., Ltd." added to "Contact for Inquiries". Revision 8 and 9 in "Revision History" deleted.</p> <p>5) Appendix 1 "2011/65/EU" (EU/RoHS) added. "(Yellow phosphorus)" added to "Lucifer match". "Red phosphorus" added. "Polychloronaphthalenes (PCN) (Cl ≥ 3)" changed to "Polychloronaphthalenes (PCN) (Cl ≥ 1)". "Perfluorooctane sulfonate (PFOS)" changed to "Perfluorooctanesulfonic acid (PFOS) and individual salts". Category numbers deleted. "1" deleted and "2 - "4" changed to "1 - "3". "3" refer to Appendix 2-2 for group classifications" changed to "refer to Appendix 6 for group classifications". "(Yellow phosphorus)" added to "Lucifer match". "Red phosphorus" added. "Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)" added. "Polychloronaphthalenes (PCN) (Cl ≥ 3)" changed to "Polychloronaphthalenes (PCN) (Cl ≥ 1)".</p> <p>7) Appendix 3 Threshold level of "Impurities in inorganic materials" in cadmium revised. Threshold level of hexavalent chromium compounds revised. "Restricted substances in packaging materials (for packaging our products)" changed to "Additional restricted substances in packaging materials". "Perfluorooctane sulfonate (PFOS)" changed to "Perfluorooctanesulfonic acid (PFOS) and individual salts". "Electroless plating films such as electroless nickel plating and electroless gold plating" added.</p> <p>8) Appendix 4 Items "JAMP" and "Laws, regulations and industry standards" added.</p> <p>9) Appendix 6 The columns of Japanese name and English name of Target substances replaced. Target substances of "RoHS" added. "Laws / Regulations" and "Remarks" regarding "Montreal Protocol" revised. "Specific phthalates 1" moved to "RoHS". Some substances of "Specific phthalates 2" deleted. The locations of "German GS certification" and "PAHs" moved.</p> <p>10) Appendix 7 "Six RoHS substances" changed to "ten RoHS2 substances". "DEHP/BBP/DBP/DIBP" and "Br/Cl" added to target analysis. "Packaging materials used by parts suppliers for supplying parts and raw materials" deleted. 7-2 to 7-6 added.</p> <p>11) Appendix 8 "Substances banned in manufacturing processes" added.</p>	H. Toyama	-	T. Kobayashi
12.0	October xx, 2017	<p>① Cover One version number and one issued date in two places deleted due to duplication.</p> <p>② P1 Revised table of contents because of update in the Appendix</p> <p>③ P2 3_ "Banned substances in the production process" added</p> <p>④ P4 5.3_Update management of SDS added by customer's request in an audit</p> <p>⑤ P5 10_ "Inspection" added.</p> <p>⑥ Appendix All pages updated to meet customer's requirement in an audit</p>	H. Toyama	K. Kawamura	T. Kobayashi

Appendix
11-1. Environment-affecting substances and main regulations

No	Japanese name	English name	Applicable laws and regulations
1	カドミウム及びその化合物	Cadmium and Cadmium Compounds	European Union. REACH Regulation (EC) No. 1907/2006. European Union. RoHS Directive 2011/65/EU. European Union. Batteries Directive 2006/66/EC. Denmark: Statutory Order No. 1199. PRTR Class I Specified (Japan)
2	鉛及びその化合物	Lead and Lead Compounds	European Union. RoHS Directive 2011/65/EU. European Union. Batteries Directive 2006/66/EC. Denmark: Statutory Order No. 1012. PRTR Class I Specified (Japan)
3	水銀及びその化合物	Mercury and Mercury Compounds	European Union. RoHS Directive 2011/65/EU. European Union. Batteries Directive 2006/66/EC. PRTR Class I Specified (Japan)
4	六価クロム化合物	Hexavalent Chromium Compounds	European Union. RoHS Directive 2011/65/EU. PRTR Class I Specified (Japan)
5	ポリ臭化ビフェニル類 (PBB類)	Polybrominated Biphenyls (PBBs)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII. European Union. RoHS Directive 2011/65/EU.
6	ポリ臭化ジフェニルエーテル類 (PBDE類)	Polybrominated Diphenyl ethers (PBDEs)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII. European Union. RoHS Directive 2011/65/EU.
7	臭素系難燃剤及びその他の臭素系化合物 (PBB類、PBDE類以外)	Brominated flame retardants and other brominated compounds (except PBBs and PBDEs)	
8	塩素系難燃剤及びその他の塩素系化合物 (PVC、短鎖型塩化パラフィン以外)	Chlorinated flame retardants and other chlorinated compounds (except PVC and short chain chlorinated paraffins)	
9	ヘキサブロモシクロドデカン (HBCDD)	Hexabromocyclododecane (HBCDD)	European Union. REACH Regulation (EC) No. 1907/2006. Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
10	ポリ塩化ビフェニル類 (PCB類)	Polychlorinated Biphenyls (PCBs)	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I. United States. Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions (40CFR761).
11	ポリ塩化ナフタレン類 (PCN類)	Polychlorinated naphthalenes (PCNs)	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
12	ポリ塩化ターフェニル類 (PCT類)	Polychlorinated terphenyls (PCTs)	European Union. REACH Regulation (EC) No. 1907/2006.
13	短鎖型塩素化パラフィン (SCCP) (炭素数10~13)	Short chain chlorinated paraffins (SCCP)(C10-13)	Norway. Regulations relating to restrictions on the use, etc. of certain dangerous chemicals. European Union. EU POPs Regulation (EC) No 850/2004.
14	リン酸トリス (2-クロロエチル) (TCEP) リン酸トリス (1-メチル-2-クロロエチル) (TCPP) リン酸トリス (1,3ジクロロ-2-プロピル) (TDCPP)	Tris(2-chloroethyl) phosphate (TCEP) Tris(2-chloro-1methyl)-phosphate (TCPP) Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	European Union. REACH Regulation (EC) No. 1907/2006. United States. Vermont State. Act 85
15	フッ素系温室効果ガス ハイドロフルオロカーボン(HFC) ペルフルオロカーボン(PFC) 六フッ化硫黄 (SF6)	Fluorinated greenhouse gases Hydrofluorocarbon (HFC), Perfluorocarbon (PFC), and Sulfur hexafluoride (SF6)	EU. Regulation (2006/842/EC), Denmark. Directive No. 552, Switzerland. Ordinance on the reduction of risks linked to chemical products (ORRChen)
16	オゾン層破壊物質 (ODS) (CFC、ハロン、四塩化炭素、1,1,1-トリクロロエタンが対象)	Ozone Depleting Substances (ODS) (CFC, Halon, Carbon tetrachloride and 1,1,1-Trichloroethane)	European Union. EU regulation (EC) No. 2037/2000. Japan. Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures. United States. Clean Air Act Amendments of 1990. Republic of Indonesia. Regulation of the Minister of Industry of the Republic of Indonesia No. 33/M-IND/PER/4/2007 dated April 17, 2007.
17	オゾン層破壊物質 (ODS) (ハイドロクロロフルオロカーボン、(HCFC) が対象)	Ozone Depleting Substances (ODS) (HCFC)	European Union. EU regulation (EC) No. 1005/2009.
18	ペルフルオロ (オクタ-1-スルホン酸) またはその塩 別名: PFOS	Perfluorooctane sulfonic (PFOS) and its salts	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII. Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
19	ペルフルオロオクタノ酸またはその塩およびそのエステル 別名: PFOA	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	Norway. Product Regulations
20	三置換有機スズ化合物 (トリブチルスズ化合物 (TBT) 及びトリフェニルスズ化合物 (TPT) を含む)	Trisubstituted organotin compounds (including tributyltin (TBT) and triphenyltin (TPT) compounds)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII. Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I and Class II.
21	ジブチルスズ (DBT) 化合物	Dibutyltin (DBT) compounds	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
22	ジオクチルスズ (DOT) 化合物	Diocetyl tin (DOT) compounds	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
23	酸化ベリリウム	Beryllium oxide	European Union. WEEE Directive 2002/96/EC and EU Directive 1999/45/EC.

No	Japanese name	English name	Applicable laws and regulations
24	塩化コバルト	Cobalt dichloride	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII. PRTR Class I Specified (Japan)
25	ヒ素及びその化合物	Arsenic and Arsenic Compounds	European Union. REACH Regulation (EC) No. 1907/2006. 76/769/EEC Prohibited Chemical Substance (Germany) Poisonous and Deleterious Substances Control Law (Japan) Water Pollution Law (Japan) PRTR Class I Specified (Japan)
26	ニッケル	Nickel	PRTR Class I Specified (Japan) IEC62474
27	フタル酸ビス(2-エチルヘキシル) (DEHP) フタル酸ジブチル (DBP) フタル酸ブチルベンジル (BBP) フタル酸ジイソブチル (DIBP)	Bis(2-ethylhexyl) phthalate (DEHP) Bibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisobutyl phthalate (DIBP)	European Union. REACH Regulation (EC) No. 1907/2006. European Union. RoHS Directive 2011/65/EU.
28	フタル酸ジイソノニル (DINP) フタル酸ジイソデシル (DIDP) フタル酸ジ-n-オクチル (DNOP)	Diisononyl phthalate (DINP) Di-"isodecyl" phthalate (DIDP) Di-n-octyl phthalate (DNOP)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
29	フタル酸ジ-n-ヘキシル (DnHP)	Di-n-hexylphthalate (DnHP)	
30	アスベスト(石綿) アモサイト クロシドライト	Asbestos Amosite Crocidolite	Japan. Industrial Safety and Health Law. Germany. Chemicals Prohibition Ordinance. (German abbreviation: ChemVerbotsV)
31	ホルムアルデヒド	Formaldehyde	Germany. Chemicals Prohibition Ordinance. (German abbreviation: ChemVerbotsV) Denmark: Statutory Order No. 289.
32	一部の芳香族アミンを生成するアゾ染料・顔料	Azocolorants and azodyes which form certain aromatic amines	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
33	N-フェニルベンゼンアミンとスチレンおよび2,4,4-トリメチルペンテンの反応生成物(BNST)	Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)	Prohibition of Certain Toxic Substances Regulations.
34	2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール(UV-320)	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol(UV-320)	Japan. Law Concerning the Examination and Regulation of Manufacture of Chemical Substances, Class I.
35	フマル酸ジメチル (DMF)	Dimethyl fumarate (DMF)	European Union. REACH Regulation (EC) No. 1907/2006.
36	多環式芳香族炭化水素 (PAH)	Polycyclic aromatic hydrocarbons (PAH)	European Union. REACH Regulation (EC) No. 1907/2006 Annex XVII.
37	重金属(鉛、カドミウム、水銀、六価クロム)	Heavy metals (cadmium, lead, mercury, and hexavalent chromium)	European Union. EU Directive 94/62/EC on packaging and packaging waste and its amendments. New York State and other 15 states in the United States. Regulations on Heavy Metals in Packaging Materials.
38	過塩素酸塩	Perchlorates	United States. California State.
39	放射性物質	Radioactive Substances	Nuclear Reactor Regulation Law
40	EU・REACH規則 認可候補リスト中の物質	Substances in candidate list for authorization of EU REACH regulation	European Union. REACH Regulation (EC) No. 1907/2006.
41	ヘキサクロロベンゼン	Hexachlorobenzene	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants
42	1,2,3,4,10,10-ヘキサクロロ-1,4,4a,5,8,8a-ヘキサヒドロ-エキソ-1,4-エンド-5,8-ジメタナフタレン 別名: アルドリン	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene Synonym: Aldrin	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants
43	1,2,3,4,10,10-ヘキサクロロ-6,7-エポキシ-1,4,4a,5,6,7,8,8a-オクタヒドロ-エキソ-1,4-エンド-5,8-ジメタナフタレン 別名: デルドリン	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethanonaphthalene Synonym: Dieldrin	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants

No	Japanese name	English name	Applicable laws and regulations
44	1,2,3,4,10,10-ヘキサクロロ-6,7-エポキシ-1,4,4a,5,6,7,8,8a-オクタヒドロ-エンド-1,4-エンド-5,8-ジメタノナフタレン 別名：エンドリン	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene Synonym : Endrin	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants
45	フッ素系温室効果ガス ハイドロフルオロカーボン (HFC) ペルフルオロカーボン (PFC) 六フッ化硫黄 (SF6)	Fluorinated greenhouse gases (HFC,PFC, SF6,)	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants
46	1,2,4,5,6,7,8,8-オクタクロロ-2,3,3a,4,7,7a-ヘキサヒドロ-4,7-メタノ-1H-インデン 1,4,5,6,7,8,8-ヘプタクロロ-3a,4,7,7a-テトラヒドロ-4,7-メタノ-1H-インデン及びこれらの類縁化合物の混合物 別名：クロルデンまたはヘプタクロル	mixture of 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene and their analogue compounds Synonym : Chlordane or Heptachlor	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I., Stockholm Convention on Persistent Organic Pollutants
47	ペルフルオロオクタンスルホン酸塩 (PFOS)	N,N'-ditolyl-p-phenylenediamine, N,N'-dixylyl-p-phenylenediamine, and N-tolyl-N'-xylyl-p-phenylenediamine	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
48	2,4,6-トリターシャリブチルフェノール	2,4,6-tri-tert-butylphenol	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
49	ポリクロロ-2,2-ジメチル-3-メチレンビスクロ[2.2.1]ヘプタン 別名：トキサフェン	Toxaphene	Stockholm Convention on Persistent Organic Pollutants
50	ドデカクロロペンタシクロ[5.3.0.0(2,6).0(3,9).0(4,8)]デカン 別名：マイルレックス	Mirex	Stockholm Convention on Persistent Organic Pollutants
51	2,2,2-トリクロロ-1,1-ビス (4-クロロフェニル) エタノール 別名：ケルセンまたはジコホル	Kelthane or dicofol	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
52	ヘキサクロロブタ-1,3-ジエン	Hexachloro-1,3-butadiene	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
53	ペルフルオロ (オクタン-1-スルホニル) =フルオリド (PFOSF)	Perfluorooctane-1-sulfonyl fluoride (PFOSF)	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
54	ペンタクロロベンゼン	Pentachlorobenzene	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
55	r-1,c-2,t-3,c-4,t-5,t-6-ヘキサクロロシクロヘキサン 別名：α-ヘキサクロロシクロヘキサン	r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane Synonym : alpha-Hexachlorocyclohexane	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
56	r-1,t-2,c-3,t-4,c-5,t-6-ヘキサクロロシクロヘキサン 別名：β-ヘキサクロロシクロヘキサン	r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane Synonym : beta-Hexachlorocyclohexane	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
57	r-1,c-2,t-3,c-4,c-5,t-6-ヘキサクロロシクロヘキサン 別名：γ-ヘキサクロロシクロヘキサンまたはリンデン	r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane Synonym : Gamma-Hexachlorocyclohexane or Lindane	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
58	デカクロロペンタシクロ[5.3.0.0(2,6).0(3,9).0(4,8)]デカン-5-オン 別名：クロルデコン	Perchloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decan-5-one Synonym : Chlordecone	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
59	ヘキサブロモビフェニル	Hexabromobiphenyl	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
60	テトラブロモ (フェノキシベンゼン) 別名：テトラブロモジフェニルエーテル	Tetrabromo(phenoxybenzene) Synonym : Tetrabromodiphenyl ether	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
61	ペンタブロモ (フェノキシベンゼン) 別名：ペンタブロモジフェニルエーテル	Pentabromo(phenoxybenzene) Synonym : Pentabromodiphenyl ether	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
62	ヘキサブロモ (フェノキシベンゼン) 別名：ヘキサブロモジフェニルエーテル	Hexabromo(phenoxybenzene) Synonym : hexabromodiphenyl ether	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
63	ヘプタブロモ (フェノキシベンゼン) 別名：ヘプタブロモジフェニルエーテル	Heptabromo(phenoxybenzene) Synonym : Heptabromodiphenyl ether	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
64	6,7,8,9,10,10-ヘキサクロロ-1,5,5a,6,9,9a-ヘキサヒドロ-6,9-メタノ-2,4,3-ベンゾジオキサチエピン=3-オキンド 別名：エンドスルファンまたはベンゾエピン	alpha-Benzoeopin	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
65	ペンタクロロフェノールまたはその塩、もしくはエステル	Pentachlorophenol and its salts and esters	Japan. Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances, Class I.
66	黄リンマッチ	Lucifer match	Industrial Safety and Health Law (Japan)
67	ベンジジン及びその塩	benzidine and its chlorides	Industrial Safety and Health Law (Japan)
68	4-アミノジフェニル及びその塩	4-Aminobiphenyl and its chlorides	Industrial Safety and Health Law (Japan)
69	4-ニトロジフェニル及びその塩	4-nitrobiphenyl and its chlorides	Industrial Safety and Health Law (Japan)
70	ビス(クロロメチル)エーテル	bis(chloromethyl) ether	Industrial Safety and Health Law (Japan)
71	β-ナフチルアミン及びその塩	beta-Naphthylamine and its chlorides	Industrial Safety and Health Law (Japan)
72	ベンゼンのり (ベンゼン5%を超えるもの)	Benzene glue (Benzene contained more than 5%)	Industrial Safety and Health Law (Japan)
73	アンチモン及びその化合物	Antimony and Antimony Compounds	PRTR Class I (Japan) WHO-Water Basel Convention
74	セレン及びその化合物	Selenium and Selenium Compounds	PRTR Class I (Japan) Basel Convention
75	ビスマス及びその化合物	Bismuth and Bismuth Compounds	-
76	赤リン	Red phosphorus	-
77	クロロエチレン	Chloroethylene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)

No	Japanese name	English name	Applicable laws and regulations
78	四塩化炭素	Carbon tetrachloride	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
79	1,2-ジクロロエタン	1,2-Dichloroethane	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
80	1,1-ジクロロエチレン	1,1-Dichloroethylene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
81	シス-1,2-ジクロロエチレン	Cis-dichloroethylene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
82	1,3-ジクロロプロペン	1,3-Dichloropropene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
83	ジクロロメタン	Dichloromethane	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
84	テトラクロロエチレン	Tetrachloroethylene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
85	1,1,1-トリクロロエタン	1,1,1-Trichloroethane	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
86	1,1,2-トリクロロエタン	1,1,2-Trichloroethane	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
87	トリクロロエチレン	Trichloroethylene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)
88	ベンゼン	Benzene	Japan. Soil Contamination Countermeasures Act(Volatile Organic Compounds)

Appendix

11-2. Banned substances

Banned substances without conditions (banned substances regardless of condition or area of presence)

No.	Japanese name	English name	CAS No.	Main applications	Threshold level
1	ヘキサブロモシクロドデカン (HBCDD)	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8	All	Banned (N.D.=Not Detected)
2	ポリ塩化ビフェニル類 (PCB類)	Polychlorinated biphenyls (PCBs)	76253-60-6 81161-70-8 99688-47-8	All	Banned (N.D.=Not Detected)
3	ポリ塩化ナフタレン類 (PCN類)	Polychlorinated naphthalenes (PCNs)	-	All	Banned (N.D.=Not Detected)
4	短鎖型塩化パラフィン類 (炭素数10～13) (SCCP)	Short chain chlorinated paraffins (C10-13) (SCCP)	-	All	Banned (N.D.=Not Detected)
5	オゾン層破壊物質 (ODS) (下記物質)	Ozone depleting substances (ODS) (below substances)	-	All	Banned (N.D.=Not Detected)
	CFC-11: トリクロロフルオロメタン	CFC-11; trichlorofluoromethane	75-69-4		
	CFC-12: ジクロロフルオロメタン	CFC-12; dichlorofluoromethane	75-71-8		
	CFC-113: トリクロロフルオロエタン	CFC-113; trichlorofluoroethane	76-13-1		
	CFC-114: ジクロロテトラフルオロエタン	CFC-114; dichlorotetrafluoroethane	76-14-2		
	CFC-115: クロロペンタフルオロエタン	CFC-115; chloropentafluoroethane	76-15-3		
	ハロン-1211: ブロモクロロジフルオロメタン	Halon-1211; bromochlorodifluoromethane	353-59-3		
	ハロン-1301: ブロモトリフルオロメタン	Halon-1301; bromotrifluoromethane	75-63-8		
	ハロン-2402: ジブロモテトラフルオロエタン	Halon-2402; dibromotetrafluoroethane	124-73-2		
	CFC-13: 塩化フッ化メタン	CFC-13; chlorotrifluoromethane	75-72-9		
	CFC-111: ペンタクロロフルオロエタン	CFC-111; pentachlorofluoroethane	354-56-3		
	CFC-112: テトラクロロジフルオロエタン	CFC-112; tetrachlorodifluoroethane	76-12-0		
	CFC-211: ヘプタクロロフルオロプロパン	CFC-211; heptachlorofluoropropane	422-78-6		
	CFC-212: ヘキサクロロジフルオロプロパン	CFC-212; hexachlorodifluoropropane	3182-26-1		
	CFC-213: ペンタクロロトリフルオロプロパン	CFC-213; pentachlorotrifluoropropane	2354-06-5		
	CFC-214: テトラクロロテトラフルオロプロパン	CFC-214; tetrachlorotetrafluoropropane	29255-31-0		
	CFC-215: トリクロロペンタフルオロプロパン	CFC-215; trichloropentafluoropropane	4259-43-2		
	CFC-216: ジクロロヘキサフルオロプロパン	CFC-216; dichlorohexafluoropropane	661-97-2		
	CFC-217: クロロヘプタフルオロプロパン	CFC-217; chloroheptafluoropropane	422-86-6		
	四塩化炭素: テトラクロロメタン	Carbon tetrachloride; tetrachloromethane	56-23-5		
	1,1,1-トリクロロエタン: メチルクロロホルム	1,1,1-Trichloroethane; methyl chloroform	71-55-6		
6	オゾン層破壊物質 (ODS) ハイドロクロロフルオロカーボン (HCFC) が対象	Ozone depleting substances (ODS) Hydrochlorofluorocarbons (HCFC)	-	All	Banned (N.D.=Not Detected)
7	三置換有機スズ化合物 トリブチルスズ (TBT) 化合物 トリフェニルスズ (TPT) 化合物を含む	Tri-substituted organostannic compounds including tributyltin (TBT) compounds and triphenyltin (TPT) compounds	-	All	Banned (N.D.=Not Detected)
8	アスベスト (石棉) (下記を除く)	Asbestos (except for below)	1332-21-4	All	Banned (N.D.=Not Detected)
	アモサイト	Amosite	12172-73-5		
	クロシドライト	Crocidolite	12001-28-4		
9	2-(2H-1,2,3-ベンゾトリアゾール-2-yl)-4,6-ジ-tert-ブチルフェノール (UV-320)	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All	Banned (N.D.=Not Detected)
10	ジメチル=フマレート (DMF) Synonym: フマル酸ジメチル	Dimethyl fumarate (DMF)	624-49-7	All	Banned (N.D.=Not Detected)
11	放射性物質	Radioactive substances	-	All	Banned (N.D.=Not Detected)
12	ヘキサクロロベンゼン	Hexachlorobenzene	118-74-1	Organic synthetic materials and ingredients of pesticides, etc.	Banned (N.D.=Not Detected)
13	1,2,3,4,10,10-ヘキサクロロ- 1,4,4a,5,8,8a-ヘキサヒドロ- エンド-5,8-ジメタナナフタレン 別名: アルドリン	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro- exo-1,4-endo-5,8-dimethanonaphthalene Synonym: Aldrin	309-00-2	Pesticides	Banned (N.D.=Not Detected)
14	1,2,3,4,10,10-ヘキサクロロ-6,7-エポキシ- 1,4,4a,5,6,7,8,8a-オクタヒドロ- エンド-5,8-ジメタナナフタレン 別名: デイルドリン	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a- octahydro-endo-1,4-endo-5,8-dimethanonaphthalene Synonym: Dieldrin	60-57-1	Pesticides	Banned (N.D.=Not Detected)

15	1,2,3,4,10,10-ヘキサクロロ-6,7-エポキシ-1,4,4a,5,6,7,8,8a-オクタヒドロ-エンド-1,4-,エンド-5,8-ジメタナナフタレン 別名：エンドリン	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene Synonym:Endrin	72-20-8	Pesticides	Banned (N.D.=Not Detected)
16	1,1,1-トリクロロ-2,2-ビス (4-クロロフェニル) エタン 別名：ジクロロジフェニルトリクロロエタン (DDT)	1,1,1-Trichloro-2,2-bis(4-chlorophenyl) ethane Synonym:Dichlorodiphenyltrichloroethane (DDT)	50-29-3	Pesticides	Banned (N.D.=Not Detected)
17	1,2,4,5,6,7,8,8- オクタクロロ - 2,3,3a,4,7,7a-ヘキサヒドロ-4,7-メタノ-1H-インデン 1,4,5,6,7,8,8-ヘプタクロロ-3a,4,7,7a-テトラヒドロ-4,7-メタノ-1H-インデン及びこれらの類縁化合物の混合物 別名：クロルデンまたはヘプタクロル	mixture of 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene and their analogue compounds Synonym:Chlordane or Heptachlor	76-44-8 5566-34-7 6058-23-7 27304-13-8 56534-03-3 56641-38-4	Pesticides for termite control, etc.	Banned (N.D.=Not Detected)
18	ビス (トリブチルスズ) =オキシド (TBTO)	Bis(tributyltin) oxide (TBTO)	56-35-9	Paints, inks, preservatives, and fungicides, etc.	Banned (N.D.=Not Detected)
19	N,N'-ジトルル-パラ-フェニレンジアミン N-トルル-N'-キシリル-パラ-フェニレンジアミン N,N'-ジキシリル-パラ-フェニレンジアミン	N,N'-Di-4-tolyl-1,4-phenylenediamine N,N'-Di-2-tolyl-1,4-phenylenediamine N,N'-Ditolyl-1,4-phenylenediamine N,N'-Bis(dimethylphenyl)-1,4-phenylenediamine N-(Dimethylphenyl)-N'-tolyl-1,4-phenylenediamine	620-91-7 15017-02-4 27417-40-9 28726-30-9 70290-05-0	Rubber antioxidants and styrene-butadiene rubber	Banned (N.D.=Not Detected)
20	2,4,6-トリ-tert-シアリブチルフェノール	2,4,6-tri-tert-butylphenol	732-26-3	Antioxidant and other agent and lubricant	Banned (N.D.=Not Detected)
21	ポリクロロ-2,2-ジメチル-3-メチリデンピクシロ [2.2.1]ヘプタン 別名：トキサフェン	Toxaphene	8001-35-2	Pesticides and miticides (for agrichemicals and livestock breeding)	Banned (N.D.=Not Detected)
22	ドデカクロロペンタシクロ[5.3.0.0 (2,6) .0 (3,9) .0 (4,8)]デカン 別名：マイレックス	Mirex	2385-85-5	Resin, rubber, paints, paper, textile, flame retardants for electrical products, pesticides, and ant poison	Banned (N.D.=Not Detected)
23	2,2,2-トリクロロ-1,1-ビス (4-クロロフェニル) エタノール 別名：ケルセンまたはジコホル	Kelthane or Dicofol	115-32-2	-	Banned (N.D.=Not Detected)
24	ヘキサクロロブタ-1,3-ジエン	Hexachlorobutadiene	87-68-3	-	Banned (N.D.=Not Detected)
25	ペルフルオロ (オクタン-1-スルホニル) =フルオライド (PFOSF)	Perfluorooctane-1-sulfonyl fluoride (PFOSF)	307-35-7	-	Banned (N.D.=Not Detected)
26	ペンタクロロベンゼン	Pentachlorobenzene	608-93-5	-	Banned (N.D.=Not Detected)
27	1,1-c-2,t-3,c-4,t-5,t-6-ヘキサクロロシクロヘキサ ン 別名：α-ヘキサクロロシクロヘキサ ン	1,1-c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane 別名:alpha-Hexachlorocyclohexane	319-84-6	-	Banned (N.D.=Not Detected)
28	1,1-t-2,c-3,t-4,c-5,t-6-ヘキサクロロシクロヘキサ ン 別名：β-ヘキサクロロシクロヘキサ ン	1,1-t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane Synonym:beta-Hexachlorocyclohexane	319-85-7	-	Banned (N.D.=Not Detected)
29	1,1-c-2,t-3,c-4,c-5,t-6-ヘキサクロロシクロヘキサ ン 別名：γ-ヘキサクロロシクロヘキサ ンまたはリ ンデン	1,1-c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane 1,2,3,4,5,6-Hexachlorocyclohexane Synonym:gamma-Hexachlorocyclohexane	58-89-9 608-73-1	-	Banned (N.D.=Not Detected)
30	デカクロロペンタシクロ[5.3.0.0 (2,6) .0 (3,9) .0 (4,8)]デカン-5-オン 別名：クロルデコン	Perchloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decan-5-one Synonym:Chlordecone	143-50-0	-	Banned (N.D.=Not Detected)
31	ヘキサブロモビフェニル	Hexabromobiphenyl	36355-01-8	-	Banned (N.D.=Not Detected)
32	テトラブロモ (フェノキシベンゼン) 別名：テトラブロモジフェニルエーテル	Tetrabromo(phenoxybenzene) 1,2-Dibromo-4-(3,4-dibromophenoxy)benzene 1,3-Dibromo-5-(3,5-dibromophenoxy)benzene Synonym:Tetrabromodiphenyl ether	40088-47-9 93703-48-1 103173-66-6	-	Banned (N.D.=Not Detected)
33	ペンタブロモ (フェノキシベンゼン) 別名：ペンタブロモジフェニルエーテル	1,2,3,4,5-Pentabromo-6-phenoxybenzene	189084-65-9	-	Banned (N.D.=Not Detected)
34	ヘキサブロモ (フェノキシベンゼン) 別名：ヘキサブロモジフェニルエーテル	Tribromo(tribromophenoxy)benzene 1,3,5-Tribromo-2-(2,4,6-tribromophenoxy)benzene Hexabromo(phenoxybenzene) 1,2,4-Tribromo-5-(2,4,5-tribromophenoxy)benzene 1,2,4,5-Tetrabromo-3-(2,4-dibromophenoxy)benzene 1,3,5-Tribromo-2-(2,4,5-tribromophenoxy)benzene	31153-30-7 35854-94-5 36483-60-0 68631-49-2 116995-33-6 207122-15-4	-	Banned (N.D.=Not Detected)
35	ヘプタブロモ (フェノキシベンゼン) 別名：ヘプタブロモジフェニルエーテル	Heptabromo(phenoxybenzene) 1,2,4,5-Tetrabromo-3-(2,4,6-tribromophenoxy)benzene 1,2,3,5-Tetrabromo-4-(2,4,6-tribromophenoxy)benzene	68928-80-3 116995-32-5 117948-63-7	-	Banned (N.D.=Not Detected)
36	6,7,8,9,10-ヘキサクロロ-1,5,5a,6,9,9a-ヘキサヒドロ-6,9-メタノ-2,4,3-ベンゾジオキサチエピン=3-オキシド 別名：エンドスルファンまたはベンゾエピン	beta-Benzoepin	33213-65-9	-	Banned (N.D.=Not Detected)

37	ペンタクロロフェノールまたはその塩、もしくはエステル	Pentachlorophenol and its chlorides or ester	87-76-3 2917-31-9 2917-32-0 3644-38-0 5902-76-1 7497-08-7 7778-73-6 10443-46-6 13673-51-3 13673-53-5 13673-54-6 23234-97-1 28990-85-4 32978-79-3 35109-57-0 36994-69-1 50654-95-0 55593-07-2 67246-71-3 90640-52-1 91080-93-2 98219-40-0 98219-41-1	-	Banned (N.D.=Not Delected)
38	黄リンマッチ	Lucifer match	12185-10-3	Ingredients in matches and smoke agents	Banned (N.D.=Not Delected)
39	ベンジジン及びその塩	Benzidine	92-87-5	-	Banned (N.D.=Not Delected)
40	4-アミノジフェニル及びその塩	4-aminobiphenyl and its chlorides	92-67-1	Rubber antioxidants and dye intermediates	Banned (N.D.=Not Delected)
41	4-ニトロジフェニル及びその塩	4-nitrobiphenyl and its salts	92-93-3	Synthetic intermediates	Banned (N.D.=Not Delected)
42	ビス(クロロメチル)エーテル	Bis(chloromethyl) ether	542-88-1	Dyes, pigments, and methylating agents	Banned (N.D.=Not Delected)
43	β-ナフチルアミン及びその塩	β-naphthylamine and its chlorides	-	-	Banned (N.D.=Not Delected)
44	ベンゼンのり (ベンゼン5%を超えるもの)	Benzene paste (Benzene contained more than 5%)	-	-	Banned (N.D.=Not Delected)
45	赤リン	Red phosphorus	-	-	Banned (N.D.=Not Delected)

Appendix

11-3. Substances to be controlled

Banned substances with conditions (banned substances by condition or area of presence)

No.	Japanese name	English name	CAS No.	Main applications	Threshold level	Remarks
1	カドミウム及びその化合物	Cadmium and cadmium compounds		- Parts composed of metals containing zinc (e.g. brass, hot dip galvanizing, etc.) of which the cadmium concentration is more than 100 ppm	< 100 ppm	
				- Impurities in organic materials	< 5 ppm	
				- Impurities in inorganic materials	< 50 ppm	
				- Solder	< 20 ppm	
				- Cadmium and its compounds in electrical contacts	Exemption	applicable to platings used for electrical contacts that require high reliability and for which there are no alternative materials
				- Filter glasses and glasses used as a standard for reflectance measurement	Exemption	
				- All uses except those specified above	Ban on intentional addition	See "11-6 Additional rules for packaging components." Plastics, synthetic fiber, films, adhesive tapes, rubber, adhesive, paints, inks are required to be tested in accordance with "11-7 Rules for chemical analysis."
2	鉛及びその化合物	Lead and lead compounds		- Impurities in organic materials	< 50 ppm	
				- Impurities in inorganic materials	< 800 ppm	
				- Electroless plating films such as electroless nickel plating and electroless gold plating	< 1000 ppm	
				- Lead in glass of cathode ray tubes	Exemption	
				- Lead in glass of fluorescent tubes not exceeding 0.2 % by weight	Exemption	
				- Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0.35% lead by weight	Exemption	
				- Lead as an alloying element in aluminium containing up to 0.4% lead by weight	Exemption	
				- Copper alloy containing up to 4% lead by weight	Exemption	
				- Lead in high melting temperature type solder (i.e. lead based alloys containing 85 wt% or more lead)	Exemption	
				- Lead in glass, glass matrix compound, ceramic or ceramic matrix compound, which is used in electrical and electronic components (e.g. piezoelectric devices) Note that dielectric ceramic in capacitors is excluded.	Exemption	
				- Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Exemption	
				- Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors	Exemption	
				- Lead in white glasses used for optical applications	Exemption	
				- Lead in filter glasses	Exemption	
				- Lead in solder to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Exemption	This includes solder paste used under C4 (Controlled Collapse Chip Connection) bumps.
				- Lead in cermet-based trimmer potentiometer elements	Exemption	
				- All uses except those specified above	Ban on intentional addition	See "11-6 Additional rules for packaging components." Plastics, synthetic fiber, films, adhesive tapes, rubber, adhesive, paints, inks are required to be tested in accordance with "11-7 Rules for chemical analysis."

3	水銀及びその化合物	Mercury and mercury compounds		- Impurities	< 50 ppm			
				- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Short length (≤ 500 mm) not exceeding (per lamp): 3.5 mg	Exemption			
				- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Medium length (> 500 mm and ≤ 1 500 mm) not exceeding (per lamp): 5 mg	Exemption			
				- Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes Long length (> 1 500 mm) not exceeding (per lamp): 10 mg	Exemption			
				- Mercury in projector lamps	Exemption			
				- All uses except those specified above	Ban on intentional addition	See "11-6 Additional rules for packaging components." Plastics, synthetic fiber, films, adhesive tapes, rubber, adhesive, paints, inks are required to be tested in accordance with "11-7 Rules for chemical analysis."		
4	六価クロム化合物			- Impurities	< 500 ppm			
				- Residues in the surfaces of screws, steel sheets, etc. that are processed with plating or conversion coating	< 500 ppm			
				- All uses except those specified above	Ban on intentional addition			
5	フタル酸ビス (2-エチルヘキシル) ; フタル酸ジ-2-エチルヘキシル (DEHP) フタル酸ブチルベンジル ; フタル酸n-ブチルベンジル (BBP) フタル酸ジブチル ; フタル酸ジ-n-ブチル (DBP) フタル酸ジイソブチル ; フタル酸ジ-n-ブチル (DIBP)	Bis(2-ethylhexan-1-yl) phthalate(DEHP) Butyl benzyl phthalate(BBP) Dibutyl phthalate(DBP) Diisobutyl phthalate(DIBP)	117-81-7 85-68-7 84-74-2 84-69-5	- All uses	<900ppm	Phthalate compounds Threshold is <900ppm in single substance, or <900 in total substances <900ppm		
6	ポリ臭化ジフェニルエーテル類 (PBDE類) (下記物質)	Polybrominated diphenyl ethers (PBDEs) (below substances)		- All uses	< 1000ppm			
							Monobromobiphenyl	Monobromobiphenyl
							Dibromobiphenyl	Dibromobiphenyl
							Tribromobiphenyl	Tribromobiphenyl
							Tetrabromobiphenyl	Tetrabromobiphenyl
							Pentabromobiphenyl	Pentabromobiphenyl
							Hexabromobiphenyl	Hexabromobiphenyl
							Hephabromobiphenyl	Hephabromobiphenyl
							Octabromobiphenyl	Octabromobiphenyl
							Nonabromobiphenyl	Nonabromobiphenyl
							Decabromobiphenyl	Decabromobiphenyl
7	ポリ臭化ジフェニルエーテル類 (PBDE類) (下記物質)	Polybrominated diphenyl ethers (PBDEs) (below substances)		- All uses	< 1000ppm			
							Monobromodiphenyl ether	Monobromodiphenyl ether
							Dibromodiphenyl ether	Dibromodiphenyl ether
							Tribromodiphenyl ether	Tribromodiphenyl ether
							Tetrabromodiphenyl ether	Tetrabromodiphenyl ether
							Pentabromodiphenyl ether	Pentabromodiphenyl ether
							Hexabromodiphenyl ether	Hexabromodiphenyl ether
							Heptabromodiphenyl ether	Heptabromodiphenyl ether
							Octabromodiphenyl ether	Octabromodiphenyl ether
							Nonabromodiphenyl ether	Nonabromodiphenyl ether
							Decabromodiphenyl ether	Decabromodiphenyl ether
8	ポリ塩化ターフェニル類 (PCT類)	Polychlorinated terphenyls (PCT)		- All uses	< 50ppm			
9	トリス (2-クロロエチル) = ホスファート (TCEP)	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	全て	<900ppm			
10	トリス (1-クロロ-2-プロピル) = ホスファート (TCPP)	Tris(2-chloro-1methyl)-phosphate (TCPP)	13674-84-5	全て	<900ppm			
11	トリス (1,3-ジクロロ-2-プロピル) ホスファート (TDCPP)	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	全て	<900ppm			
12	フッ素系温室効果ガス ハイドロフルオロカーボン (HFC) ペルフルオロカーボン (PFC) 六フッ化硫黄 (SF6)	Fluorinated greenhouse gases (HFC,PFC, SF6)		- All uses	Ban on intentional addition			
							- SF6 incorporated into surge absorber in power unit for projector	Exemption

13	ペルフルオロオクタンスルホン酸塩 (PFOS)	Perfluorooctane sulfonates (PFOS)		- Photographic film for professional use	Exemption	
				- Resist for semiconductors	Exemption	
				- Impurities	< 1000 ppm	
				- All uses except those specified above	Ban on intentional addition	
14	ペルフルオロオクタン酸 (PFOA) と個々の塩及びPFOAのエステル	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA	335-67-1 335-95-5 2395-00-8 335-66-0 376-27-2 3108-24-5	- Impurities	< 1000 ppm	
				- All uses except those specified above	Ban on intentional addition	
15	ジブチルスズ (DBT) 化合物	Dibutyltin (DBT) compounds		All uses except for below	Sn<1000ppm	Tin in the part
				Additives of packaging components for parts and devices, which are reused and not supplied to consumers	Exemption	
				Additives of packaging components or materials for devices, semiconductors, and any other components (e.g. trays, magazine sticks, stoppers, reels, embossed carrier tapes)	Exemption	
16	ジオクチルスズ (DOT) 化合物	Dioctyltin (DOT) compounds		- Textiles that are designed to be touched with the human skin (Cloth, textile) /Parts and materials for a leather article	Sn<1000ppm	Tin in the part
				Childcare article and material	Sn<1000ppm	Tin in the part
				Two-pack room temperature vulcanizing molding kit (RTV-2Sealant modling kit)	Sn<1000ppm	Tin in the part
17	酸化ベリリウム	Beryllium oxide		- All uses	< 1000 ppm	
18	塩化コバルト	Cobalt dichloride	7646-79-9	- Moisture indicator used for a desiccant agent (e.g. silica gel)	Ban on intentional addition	
				- Humidity indicator card which is impregnated with cobalt dichloride	< 1000 ppm	
				- All uses except those specified above	< 1000 ppm	
19	ヒ素及びその化合物 (下記物質)	Arsenic and Arsenic Compounds (below substances)		- All uses	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.
				三酸化二ヒ素	Diarsenic trioxide	1327-53-3
	五酸化二ヒ素	Diarsenic pentoxide	1303-28-2	Glass for LCD panels (including cover glasses, touchscreens, and backlights)	< 1000 ppm	
				- All application other than the above	< 1000 ppm	
20	ニッケル及びその化合物	Nickel and nickel compounds		- All uses	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.
21	フタル酸ジイソノニル (DINP)	Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	- All uses	< 1000 ppm	0.1 wt% (1000 ppm) as the sum of the phthalate (DINP, DIDP, DNOP)
22	フタル酸ジイソデシル (DIDP)	Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	- All uses	< 1000 ppm	0.1 wt% (1000 ppm) as the sum of the phthalate (DINP, DIDP, DNOP)
23	フタル酸ジ-n-オクチル (DNOP)	Di-n-octyl phthalate (DNOP)	117-84-0	- All uses	< 1000 ppm	0.1 wt% (1000 ppm) as the sum of the phthalate (DINP, DIDP, DNOP)

24	ホルムアルデヒド	Formaldehyde	50-00-0	- The wooden products made from fiberboard, particleboard, or plywood, which are employed in products (e.g. speakers and racks)	Concentration in the air < 0.1 ppm	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.
				- All application other than the above	Reportable	
25	一部の芳香族アミンを生成するアゾ染料・顔料 (下記物質)	Azocolourants and azodyes which form certain aromatic amines		- Substances which are used in parts or articles that may come into direct and prolonged contact with the human skin (e.g. belts, straps, ear phones, head phones, and shoulder pads for bags)	Ban on intentional addition < 30 ppm	
				- Parts or articles that do not come into continuous contact with the human skin (e.g. cushions, computer mice, remote commanders, and carrying bags)	Exemption	
	4-アミノジフェニル	4-aminodiphenyl	92-67-1			
	ベンジジン	benzidine	92-87-5			
	4-クロロ- <i>o</i> -トルイジン : 4-クロロ-2-メチルアニリン	4-chloro- <i>o</i> -toluidine; 4-chloro-2-methylaniline	95-69-2			
	2-ナフチルアミン	2-naphthylamine	91-59-8			
	<i>o</i> -アミノアソトルエン	<i>o</i> -aminoazotoluene	97-56-3			
	2-アミノ-4-ニトロトルエン : 5-ニトロ- <i>o</i> -トルイジン	2-amino-4-nitrotoluene; 5-nitro- <i>o</i> -toluidine	99-55-8			
	<i>p</i> -クロロアニリン	<i>p</i> -chloroaniline	106-47-8			
	2,4-ジアミノアノール	2,4-diaminoaniline	615-05-4			
	4,4'-ジアミノジフェニルメタン : 4,4'-メチレンジアニリン	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	101-77-9			
	3,3'-ジクロロベンジジン	3,3'-dichlorobenzidine	91-94-1			
	3,3'-ジメトキシベンジジン	3,3'-dimethoxybenzidine	119-90-4			
	3,3'-ジメチルベンジジン	3,3'-dimethylbenzidine	119-93-7			
	3,3'-ジメチル-4,4'-ジアミノジフェニルメタン : 4,4'-ジアミノ-3,3'-ジメチルジフェニルメタン	3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane	838-88-0			
	<i>p</i> -クレシジン : 6-メトキシ- <i>m</i> -トルイジン	<i>p</i> -cresidine; 6-methoxy- <i>m</i> -toluidine	120-71-8			
	4,4'-メチレンビス- (2-クロロアニリン)	4,4'-methylene-bis-(2-chloroaniline)	101-14-4			
	4,4'-オキシジアニン	4,4'-oxideaniline	101-80-4			
	4,4'-チオジアニン : 4,4'-ジアミノジフェニルスルフィド	4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide	139-65-1			
	<i>o</i> -トルイジン	<i>o</i> -toluidine	95-53-4			
	2,4-トルイレンジアミン : 4-メチル- <i>m</i> -フェニレンジアミン	2,4-toluylenediamine; 4-methyl- <i>m</i> -phenylenediamine	95-80-7			
	2,4,5-トリメチルアニリン	2,4,5-trimethylaniline	137-17-7			
	<i>o</i> -アニシジン	<i>o</i> -anisidine	90-04-0			
	4-アミノアゾベンゼン	4-aminoazobenzene	60-09-3			

26	N-フェニルベンゼンアミンのスチレン及び、2,4,4-トリメチルペンテンの反応生成物 (BNST)	Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)	68921-45-9	- All uses	Ban on intentional addition		
				Antioxidants added to lubricants and rubber (excluding tires)	Exemption		
27	多環芳香族炭化水素 (PAH) (下記物質)	Polycyclic aromatic hydrocarbons (PAH)		- Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact	< 0.5ppm	0.00005 wt% (0.5 ppm) of the plastic or rubber part	
				- Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles	< 1ppm	0.0001 wt% (1 ppm) of the plastic or rubber part	
	ベンゾ (a) ピレン	Benzo[a]pyrene	50-32-8				
	ベンゾ (e) ピレン	Benzo[e]pyrene	192-97-2				
	ベンゾ (a) アントラセン	Benzo[a]anthracene	56-55-3				
	クリセン	Chrysene	218-01-9				
	ベンゾ (b) フルオランテン	Benzo[e]acephenanthrylene	205-99-2				
	ベンゾ (j) フルオランテン	Benzo[j]fluoranthene	205-82-3				
	ベンゾ (k) フルオランテン	Benzo[k]fluoranthene	207-08-9				
	ジベンゾ (a,h) アントラセン	Dibenz[a,h]anthracene	53-70-3				
28	上記以外の多環芳香族炭化水素 (PAH) (下記物質)	Polycyclic aromatic hydrocarbon (PAH) other than above (below substances)		- All uses except those specified above	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.	
				ナフタレン	Naphthalin	91-20-3	
				アセナフチレン	Acenaphthylen	208-96-8	
				アセナフテン	Acenaphthen	83-32-9	
				フルオレン	Fluoren	86-73-7	
				フェナントレン	Phenanthren	85-01-8	
				アントラセン	Anthracen	120-12-7	
				フルオランテン	Fluoranthen	206-44-0	
				ピレン	Pyren	129-00-0	
				インデノ(1,2,3-cd)ピレン	Indeno[1,2,3-cd]pyren	193-39-5	
				ベンゾ(g,h,i)ペリレン	Benzo[g,h,i]perylene	191-24-2	

29	臭素系難燃剤 (BFR) (PBDE類、PBDE類以外)	Brominated flame retardants (BFR) (other than PBBs, PBDEs, or HBCDD)		- All uses	Br <900ppm	0.09 wt% (900 ppm) total bromine content in laminate As a result of the survey, if any of the substances exceed threshold levels, we may ask you to provide alternative materials/parts, or we may reject your materials/parts, depending on our product specifications.
30	塩素系難燃剤 (CFR) (PVC、短鎖型塩化パラフィン、TCEP、TCPP、TDCPP以外) (PVCは下記も参照)	Chlorinated flame retardants (CFR) (other than TCEP, TCPP, or TDCPP) (Refer to below for PVC)		- All uses	Cl <900ppm	0.09 wt% (900 ppm) total chlorine content in laminate As a result of the survey, if any of the substances exceed threshold levels, we may ask you to provide alternative materials/parts, or we may reject your materials/parts, depending on our product specifications.
31	ポリ塩化ビニル (PVC) およびPVC混合物	Polyvinyl chloride (PVC) and PVC blends		- Substrates for FeliCa contactless IC cards	Ban on intentional addition	
				- Carrying bags, carrying cases, and carrying pouches for digital cameras, video camcorders, and portable audio products (excluding those for professional use)		
				- Cable ties used for accessories and connecting cords		
- packaging components and materials to protect, contain, or transport products or supplied accessories (e.g. bags, adhesive tapes, cartons, and blister packs) (Note that packaging components or materials for devices, semiconductors, and any other components (e.g. trays, magazine sticks, stoppers, reels, embossed carrier tapes) are excluded.)						
- Heat shrink tubes (excluding those for batteries)						
- Flexible flat cables (FFC)						
- Insulating plates, decorative panels, labels (excluding those for batteries)						
- Sheets, and laminates (including sheets and laminates used for exterior of wooden speakers)						
- Suction cups for mounting in-vehicle products						
- Binder for resins used for paints, inks, coating agents, adhesives etc.	Exemption					
- All uses except those specified above	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.				
32	フタル酸ジ- n -ヘキシル (DnHP)	Di-n-hexyl phthalate (DnHP)	84-75-3	- All uses	Intentionally added or 0.1wt% (1000 ppm) of article	
33	過塩素酸塩	Perchlorates		- All uses	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.

34	Substances in candidate list for authorization of EU REACH regulation (Substances in the list need authorisation by ECHA to use) (below substances)	Substances in candidate list for authorization of EU REACH regulation (Substances in the list need authorisation by ECHA to use) (below substances)	- All uses	< 1000ppm also reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.
	ホウ酸	Boric acid	10043-35-3 11113-50-1		
	四ホウ酸二ナトリウム	Disodium tetraborates	12179-04-3 1330-43-4 1303-96-4 12267-73-1		
	ジアルキル (C=6~8、分岐、C7に含む) = フタレート (DIHP) 別名: 炭素数7を主成分とする炭素数6~8の分岐アルキルを有するフタル酸ジアルキル	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6		
	ジアルキル (C=7~11、分岐、線型) = フタレート (DHNUP) 別名: 炭素数7~11の分岐及び直鎖アルキルを有するフタル酸ジアルキル	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4		
	耐火セラミック繊維 (RCF)、アルミノ珪酸塩	Aluminosilicate Refractory Ceramic Fibres	-		
	耐火セラミック繊維 (RCF)、ジルコニアアルミノ珪酸塩	Zirconia Aluminosilicate Refractory Ceramic Fibres	-		
	4-(1,1,3,3-テトラメチルブチル)フェノール 別名: 4-tert-オクチルフェノール	4-(1,1,3,3-tetramethylbutyl)phenol Synonym: 4-tert-Octylphenol	140-66-9		
	ビス (2-メトキシエチル) エーテル	Bis(2-methoxyethyl) ether	111-96-6		
	ビス (2-メトキシエチル) = フタレート (DMEP) 別名: フタル酸ビス (2-メトキシエチル)	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8		
	1,2-ビス (2-メトキシエトキシ) エタン (TEGDME: トリグリム)	1,2-bis(2-methoxyethoxy)ethane (TEGDME) Synonym: Triglyme, Triethylene glycol dimethyl ether, Ansul Ether 161, DMTG, Ethane 1,2-bis(2-methoxyethoxy)-, Glyme 4, Hisolve MTM, Methyltriglyme, NSC 66400	112-49-2		
	1,2-ジメトキシエタン (EGDME) 別名: エチレンジグリコールメチルエーテル	1,2-dimethoxyethane (EGDME) Synonym: 1,2-Ethanediol, dimethyl ether; 2,5-Dioxahexane; DME; DME (glycol ether); Dimethyl Cellosolve; Ethylene dimethyl ether; Glycol dimethyl ether; Glyme; Hisolve MMM; Monoethylene glycol dimethyl ether, Monoglyme; NSC 60542, -, Dimethoxyethane	110-71-4		
	4-アミノアゾベンゼン	4-Aminoazobenzene Synonym: 4-Phenylazoaniline, Aniline Yellow	60-09-3		
	1,2-ジエトキシエタン	1,2-Diethoxyethane Synonym: Diethyl glycol; Ethylene Glycol Diethyl Ether	629-14-1		
	三酸化二ホウ素	Diboron trioxide Synonym: Boron oxide; Boron sesquioxide	1303-86-2		
	N,N-ジメチルホルムアミド	N,N-dimethylformamide Synonym: Formyl dimethylamine	68-12-2		
	ジペンチル (分岐及び直鎖) = フタレート 別名: 分岐及び直鎖のフタル酸ジペンチル	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear Synonym: bis-C5-alkyl-(linear and branched)phthalate	84777-06-0		

ジイソペンチル=フタラト (DIPP) 別名: フタル酸ジイソペンチル	Diisopentylphthalate (DIPP) Synonym: 1,2-Benzenedicarboxylic acid; bis(3-methylbutyl)ester; Diisoamyl phthalate; Isoamyl phthalate	605-50-5		
N-ペンチルイソペンチルフタル酸 別名: フタル酸-n-ペンチルイソペンチル	N-pentyl-isopentylphthalate n-Pentyl-isopentyl phthalate; 1,2-Benzenedicarboxylic acid; 3-methylbutylpentyl ester	776297-69-9		
メチルヘキサヒドロ無水フタル酸	Hexahydromethylphthalic anhydride	57110-29-9 19438-60-9 25550-51-0 48122-14-1		
フタル酸ジペンチル (DPP) 別名: フタル酸ジアミル	Dipentyl phthalate (DPP) Synonym: amol; amylphthalate; amyl phthalate; di-n-phthalate; ai3-00363(usda); diamyl phthalate; dipentyl phthalate; dii-n-amyl phthalate; di-1-pentylphthalate	131-18-0		
4-ノルフェノール、分岐及び直鎖のエトキシレート (炭素数の直鎖及び/または分岐したアルキル鎖がフェノールの4の位置で共有結合している物質で、エトキシレートはUVCB物質及び明確に組成がわかっている物質、ポリマー並びに個々の異性体もしくはその組み合わせのいづれかを含む同族体を範囲とする)	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)	-		
トリス (ジメチルフェニル) = ホスファート 別名: リン酸トリキシル (TXP)、トリス (ジメチルフェニル) = ホスファート	Trixylyl phosphate (TXP)	25155-23-1		
3,3'- (ジフェニル-4,4'-ジイルビスアゾ) ビス (4-アミノ-1-ナフトレンスルホン酸ナトリウム) (C.I.ダイレクトレッド28)	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	537-58-0		
イミダゾリン-2-チオン (2-イミダゾリン-2-チオール)	Imidazolidine-2-thione; (2-imidazoline-2-thiol) Synonym: ethylene thiourea	96-45-7		
ジヘキシル (分岐、線型) = フタラト (DIHP) 別名: 分岐及び直鎖のフタル酸ジヘキシル	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Synonym: Diisohexyl phthalate (DIHP)	68515-50-4		
C.I.ダイレクトブラック38 別名: ニナトリウム=4-アミノ-3-((4'-[[2,4-ジアミノフェニル]ジアゼニル]ピフェニル-4-イル)ジアゼニル)-5-ヒドロキシ-6-(フェニルジアゼニル) ナフトレン-2,7-ジスルホナート	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		
ビス (2-エチルヘキサノ-1-イル) = 2,2'-[[ジオクタン-1-イルスタンナテトラデカン酸2-エチルヘキシルと10-エチル-4-[[2-[[2-エチルヘキシル]オキシ]-2-オキソエチル]チオ]-4-オクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシル	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Synonym: DOTE	15571-58-1		
10-エチル-4,4-ジオクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシルと10-エチル-4-[[2-[[2-エチルヘキシル]オキシ]-2-オキソエチル]チオ]-4-オクチル-7-オキソ-8-オキサ-3,5-ジチア-4-スタンナテトラデカン酸2-エチルヘキシルを構成要素とする物質 (DOTEとMOTEを構成要素とする物質)	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[[2-ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-		
2- (2H-ベンゾトリアゾール-2-イル) -4,6-ジ-tert-ペンチルフェノール (UV-328)	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1		
1,2-ベンゼンジカルボン酸、ジ-C6-10-アルキルエステル、1,2-ベンゼンジカルボン酸のデシル、ヘキシル、オクチルジエステルの混合物 [フタル酸ジヘキシル (EC No.201-559-5) を0.3%以上含有]	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1		
1,3-プロパンスルトン	1,3-propanesultone	1120-71-4		
2- (2-ヒドロキシ-3,5-ジ-tert-ブチルフェニル) -5-クロロベンゾトリアゾール (UV-327) 別名: 2- (3,5-ジ-tert-ブチル-2-ヒドロキシフェニル) -5-クロロベンゾトリアゾール、2,4-ジ-tert-ブチル-6- (5-クロロベンゾトリアゾール-2-イル) フェノール	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1		
2- (2H-ベンゾトリアゾール-2-イル) -6-sec-ブチル-4-tert-ブチルフェノール (UV-350) 別名: 2- (2H-ベンゾトリアゾール-2-イル) -4- (tert-ブチル) -6- (sec-ブチル) フェノール	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3		
ペルフルオロノナン-1-酸とそのナトリウム及びアンモニウム塩類	Perfluorononan-1-oic-acid and its sodium and ammonium salts	4149-60-4 375-95-1 210049-39-8		
ベンゾ [a] ピレン 別名: ベンゾ [def] クリゼン	Benzo[def]chrysene Synonym: Benzo[a]pyrene	50-32-8		
4,4'-イソプロピリデンジフェノール 別名: ビスフェノールA (BPA)	4,4'-isopropylidenediphenol Synonym: Bisphenol A; BPA	80-05-7		
ノナデカフルオロデカン酸 (PFDA) 及びナトリウム塩、アンモニウム塩	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7		
35 アンチモン及びその化合物	Antimony and antimony compounds	-	fire-retardant	< 900p pm As a result of the survey, if any of the substances exceed threshold levels, we may ask you to provide alternative materials/parts, or we may reject your materials/parts, depending on our product specifications.

36	セレン及びその化合物	Selenium and selenium compounds		- All uses (e.g. copier photoreceptors, pigments, photovoltaic cells, solar cells, magnetic cores, and coloring agents for glass)	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.
37	ビスマス及びその化合物	Bismuth and bismuth Compounds		- All uses (e.g. lead-free solder and resistor elements)	Reportable	Threshold levels are not specified but we ask you to provide information such as substance names, contents and applications.

Appendix

11-4. Monitored substances

Substances whose consumption needs to be monitored and for which consideration need to be given to human health, safety and hygiene, adequate treatment, etc. The intentional use of these substances is not restricted, but their use and concentration should be monitored.

If your products contain monitored substances, please enter the details on the chemSHERPA.

The monitored substances in this appendix are equivalent to the substances listed in the laws, regulations, industry standards, etc. shown in the following table.

The monitored substances are equivalent to the substances listed in the Managed Substances Search List (the latest version) made by chemSHERPA except for banned substances and substances to be controlled in this standard.

If treaties, laws, ordinances, industry guidelines, etc. individually apply to designated regions or products with regard to monitored substances, your products must fully comply with them.

[Relevant standards for chemical management]

Relevant standards for chemical management ID	Relevant laws/regulations and industry standards
LR01	Class I Specified Chemical Substances under the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacturer, etc. (CSCL) (Japan)
LR02	Toxic Substances Control Act: TSCA (US) Banned or restricted substances (Section 6)
LR03	EU ELV Directive 2011/37/EU
LR04	EU RoHS Directive 2011/65/EU ANNEX II
LR05	EU POPs Regulation (EC) No 850/2004 ANNEX I
LR06	EU REACH Regulation (EC) No 1907/2006 Candidate List of SVHC for Authorisation (candidate substances for possible inclusion in the Authorisation List) and ANNEX XIV (Authorisation substances) Please see the ECHA's website for a latest list of SVHC: ⇒ https://echa.europa.eu/candidate-list-table ECHA > Information on Chemicals > Candidate List of substances of very high concern for Authorisation
LR07	EU REACH Regulation (EC) No 1907/2006 ANNEX XVII (Restricted substances)
IC01	Global Automotive Declarable Substance List (GADSL)
IC02	IEC 62474 DB Declarable substance groups and declarable substances

* The substances specified by the above laws, regulations and industry standards include the 'banned substances' and the 'substances to be controlled' specified in this standard. For overlapping substances, more strict management in Appendices prevail.

[Notes]

chemSHERPA Guidance on managed substances and standard of management (Latest) (Japanese)

chemSHERPA Data entry support tool and manual for articles (Latest) (Japanese)

chemSHERPA Data entry support tool and manual for chemicals (Latest) (Japanese)

<https://chemsherpa.net/chemSHERPA/tool/>

chemSHERPA Guidance on managed substances and standard of management (Latest) (English)(Chinese)

chemSHERPA Data entry support tool and manual for articles (Latest) (English)(Chinese)

chemSHERPA Data entry support tool and manual for chemicals (Latest) (English)(Chinese)

<https://chemsherpa.net/chemSHERPA/english/tool/>

Appendix

11-5.Substances banned in manufacturing processes

No.	Japanese name	English name	CAS No.	Threshold level	Applications/Special notes	Remarks
1	CFC-11 : トリクロロフルオロメタン	CFC-11:Trichloro(fluoro)methane	75-69-4	Ban on inclusion	Substances that must not be used in the manufacturing process of raw materials (including isomers)	Ozone layer protection law Substances in Group I of Annex A, Montreal Protocol
2	CFC-12 : ジクロロフルオロメタン	CFC-12:Dichloro(difluoro)methane	75-71-8			
3	CFC-113 : トリクロロフルオロエタン	CFC-113:Trichlorotrifluoroethane	76-13-1			
4	CFC-114 : ジクロロテトラフルオロエタン	CFC-114:1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2			
5	CFC-115 : クロロペンタフルオロエタン	CFC-115:Chloropentafluoroethane	76-15-3			
6	ハロン-1211 : ブロモクロロジフルオロメタン	Halon-1211:Bromo(chloro)(difluoro)methane	353-59-3	Same as above	Same as above	Ozone layer protection law Substances in Group II of Annex A, Montreal Protocol
7	ハロン-1301 : ブロモトリフルオロメタン	Halon-1301:Bromo(trifluoro)methane	75-63-8			
8	ハロン-2402 : ジブロモテトラフルオロエタン	Halon-2402:1,2-Dibromo-1,1,2,2-tetrafluoroethane	124-73-2			
9	CFC-13 : 塩化フッ化メタン	CFC-13:Chloro(trifluoro)methane	75-72-9	Same as above	Same as above	Ozone layer protection law Substances in Group I of Annex B, Montreal Protocol
10	CFC-111 : ペンタクロロフルオロエタン	CFC-111:Pentachlorofluoroethane	354-56-3			
11	CFC-112 : テトラクロロジフルオロエタン	CFC-112:1,1,2,2-Tetrachloro-1,2-difluoroethane	76-12-0			
12	CFC-211 : ヘプタクロロプロパン	CFC-211:1,1,1,2,2,3,3-heptachloro-3-fluoro-propane	422-78-6			
13	CFC-212 : ヘキサクロロジフルオロプロパン	CFC-212:1,1,1,3,3,3-Hexachloro-2,2-difluoropropane	3182-26-1			
14	CFC-213 : ペンタクロロトリフルオロプロパン	CFC-213:-	2354-06-5			
15	CFC-214 : テトラクロロテトラフルオロプロパン	CFC-214:Tetrachloro(tetrafluoro)propane	29255-31-0			
16	CFC-215 : トリクロロペンタフルオロプロパン	CFC-215:1,1,1-Trichloro-2,2,3,3,3-pentafluoropropane	4259-43-2			
17	CFC-216 : ジクロロヘキサフルオロプロパン	CFC-216:1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane	661-97-2			
18	CFC-217 : クロロヘプタフルオロプロパン	CFC-217:1-Chloro-1,1,2,2,3,3,3-heptafluoropropane	422-86-6			
19	四塩化炭素 : テトラクロロメタン	Tetrachloromethane	56-23-5	Same as above	Same as above	Ozone layer protection law Substances in Group II of Annex B, Montreal Protocol
20	1,1,1-トリクロロエタン : メチルクロロホルム	1,1,1-Trichloroethane	71-55-6	Same as above	Same as above	Ozone layer protection law Substances in Group III of Annex B, Montreal Protocol
21	HCFC-21:ジクロロ(フルオロ)メタン	HCFC-21:Dichloro(fluoro)methane	75-43-4	Same as above	Same as above	Ozone layer protection law Substances in Group I of Annex C, Montreal Protocol
22	HCFC-22:クロロ(ジフルオロ)メタン	HCFC-22:Chloro(difluoro)methane	75-45-6			
23	HCFC-31:クロロ(フルオロ)メタン	HCFC-31:Chloro(fluoro)methane	593-70-4			
24	HCFC-121:1, 1, 1, 2-テトラクロロ-2-フルオロエタン	HCFC-121:1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0			
25	HCFC-122:1, 2, 2-トリクロロ-1, 1-ジフルオロエタン	HCFC-122:1,2,2-Trichloro-1,1-difluoroethane	354-21-2			
26	HCFC-123:1, 1-ジクロロ-1, 2, 2-トリフルオロエタン	HCFC-123:1,1-Dichloro-1,2,2-trifluoroethane	812-04-4			
27	HCFC-123:2, 2-ジクロロ-1, 1, 1-トリフルオロエタン	HCFC-123:2,2-Dichloro-1,1,1-trifluoroethane	306-83-2			
28	HCFC-124:1-クロロ-1, 1, 2-テトラフルオロエタン	HCFC-124:1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6			
29	HCFC-124:2-クロロ-1, 1, 1-テトラフルオロエタン	HCFC-124:2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0			
30	HCFC-131:トリクロロ(フルオロ)エタン	HCFC-131:Trichloro(fluoro)ethane	27154-33-2			
31	HCFC-132:1, 2-ジクロロ-1, 1-ジフルオロエタン	HCFC-132:1,2-Dichloro-1,1-difluoroethane	1649-08-7			
32	HCFC-133:2-クロロ-1, 1, 1-トリフルオロエタン	HCFC-133:2-Chloro-1,1,1-trifluoroethane	75-88-7			
33	HCFC-141:1, 2-ジクロロ-1-フルオロエタン	HCFC-141:1,2-Dichloro-1-fluoroethane	430-57-9			
34	HCFC-141b:1, 1-ジクロロ-1-フルオロエタン	HCFC-141b:1,1-Dichloro-1-fluoroethane	1717-00-6			

35	HCFC-142:クロロ(ジフルオロ)エタン	HCFC-142:Chloro(difluoro)ethane	25497-29-4			
36	HCFC-142b:1-クロロ-1,1-ジフルオロエタン	HCFC-142b:1-Chloro-1,1-difluoroethane	75-68-3			
37	HCFC-151:1-クロロ-1-フルオロエタン	HCFC-151:1-Chloro-1-fluoroethane	1615-75-4			
38	HCFC-221:ヘキサクロロ(フルオロ)プロパン	HCFC-221:Hexachloro(fluoro)propane	134237-35-7			
39	HCFC-222:ペンタクロロ(ジフルオロ)プロパン	HCFC-222:Pentachloro(difluoro)propane	134237-36-8			
40	HCFC-223:1,1,3,3-テトラクロロ-1,2,2-トリフルオロプロパン	HCFC-223:1,1,3,3-Tetrachloro-1,2,2-trifluoropropane	134237-37-9			
41	HCFC-224:1,1,3,3-トリクロロ-1,1,2,2-テトラフルオロプロパン	HCFC-224:1,1,3,3-Trichloro-1,1,2,2-tetrafluoropropane	134237-38-0			
42	HCFC-225:1,2-ジクロロ-1,1,3,3,3-ペンタフルオロプロパン	HCFC-225:1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7			
43	HCFC-225ca:3,3-ジクロロ-1,1,1,2,2-ペンタフルオロプロパン	HCFC-225ca:3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0			
44	HCFC-225cb:1,3-ジクロロ-1,1,2,2,3-ペンタフルオロプロパン	HCFC-225cb:1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1			
45	HCFC-226:2-クロロ-1,1,1,3,3,3-ヘキサフルオロプロパン	HCFC-226:2-Chloro-1,1,1,3,3,3-hexafluoropropane	134308-72-8			
46	HCFC-231:ペンタクロロ(フルオロ)プロパン	HCFC-231:Pentachloro(fluoro)propane	134190-48-0			
47	HCFC-232:テトラクロロ(ジフルオロ)プロパン	HCFC-232:Tetrachloro(difluoro)propane	134237-39-1			
48	HCFC-233:トリクロロ(トリフルオロ)プロパン	HCFC-233:Trichloro(trifluoro)propane	134237-40-4			
49	HCFC-234:ジクロロ(テトラフルオロ)プロパン	HCFC-234:Dichloro(tetrafluoro)propane	127564-83-4			
50	HCFC-235:クロロ(ペンタフルオロ)プロパン	HCFC-235:Chloro(pentafluoro)propane	134237-41-5			
51	HCFC-241:テトラクロロ(フルオロ)プロパン	HCFC-241:Tetrachloro(fluoro)propane	134190-49-1			
52	HCFC-242:トリクロロ(ジフルオロ)プロパン	HCFC-242:Trichloro(difluoro)propane	134237-42-6			
53	HCFC-243:ジクロロ(トリフルオロ)プロパン	HCFC-243:Dichloro(trifluoro)propane	134237-43-7			
54	HCFC-244:クロロ(テトラフルオロ)プロパン	HCFC-244:Chloro(tetrafluoro)propane	134190-50-4			
55	HCFC-251:トリクロロ(フルオロ)プロパン	HCFC-251:Trichloro(fluoro)propane	134190-51-5			
56	HCFC-252:ジクロロ(ジフルオロ)プロパン	HCFC-252:Dichloro(difluoro)propane	134190-52-6			
57	HCFC-253:クロロ(トリフルオロ)プロパン	HCFC-253:Chloro(trifluoro)propane	134237-44-8			
58	HCFC-261:ジクロロ(フルオロ)プロパン	HCFC-261:Dichloro(fluoro)propane	134237-45-9			
59	HCFC-262:クロロ(ジフルオロ)プロパン	HCFC-262:Chloro(difluoro)propane	134190-53-7			
60	HCFC-271:クロロ(フルオロ)プロパン	HCFC-271:Chloro(fluoro)propane	134190-54-8			
61	ジブロモフルオロメタン	Dibromodifluoromethane	75-61-6	Same as above	Same as above	Ozone layer protection law Substances in Group II of Annex C, Montreal Protocol
62	ブロモジフルオロメタン	Bromo(difluoro)methane	1511-62-2			
63	ブロモフルオロメタン	Bromo(fluoro)methane	373-52-4			
64	テトラブロモフルオロエタン	Tetrabromofluoroethane	-			
65	トリブロモジフルオロエタン	Tribromodifluoroethane	-			
66	ジブロモトリフルオロエタン	Dibromotrifluoroethane	-			
67	ブロモテトラフルオロエタン	Bromotetrafluoroethane	-			
68	トリブロモフルオロエタン	Tribromofluoroethane	-			
69	ジブロモジフルオロエタン	Dibromodifluoroethane	-			
70	ブロモトリフルオロエタン	Bromotrifluoroethane	-			
71	ジブロモフルオロエタン	Dibromofluoroethane	-			
72	ブロモジフルオロエタン	Bromodifluoroethane	-			
73	ブロモフルオロエタン	Bromofluoroethane	-			
74	ヘキサブロモフルオロプロパン	Hexabromofluoropropane	-			
75	ペンタブロモジフルオロプロパン	Pentabromodifluoropropane	-			
76	テトラブロモトリフルオロプロパン	Tetrabromotrifluoropropane	84-74-2			
77	トリブロモテトラフルオロプロパン	Tribromotetrafluoropropane	117-81-7			

78	ジブロモペンタフルオロプロパン	Dibromopentafluoropropane	-			
79	ブロモヘキサフルオロプロパン	Bromohexafluoropropane	-			
80	ペンタブロモフルオロプロパン	Pentabromofluoropropane	-			
81	テトラブロモジフルオロプロパン	Tetrabromodifluoropropane	-			
82	トリブロモトリフルオロプロパン	Tribromotrifluoropropane	-			
83	ジブロモテトラフルオロプロパン	Dibromotetrafluoropropane	-			
84	ブロモペンタフルオロプロパン	Bromopentafluoropropane	-			
85	テトラブロモフルオロプロパン	Tetrabromofluoropropane	-			
86	トリブロモジフルオロプロパン	Tribromodifluoropropane	-			
87	ジブロモトリフルオロプロパン	Dibromotrifluoropropane	-			
88	ブロモテトラフルオロプロパン	Bromotetrafluoropropane	-			
89	トリブロモフルオロプロパン	Tribromofluoropropane	-			
90	ジブロモジフルオロプロパン	Dibromodifluoropropane	-			
91	ブロモトリフルオロプロパン	Bromotrifluoropropane	-			
92	ジブロモフルオロプロパン	Dibromofluoropropane	-			
93	ブロモジフルオロプロパン	Bromodifluoropropane	-			
94	ブロモフルオロプロパン	Bromofluoropropane	-			
95	ブロモクロロメタン	Bromo(chloro)methane	-	Same as above	Same as above	Ozone layer protection law Substances in Group III of Annex C, Montreal Protocol
96	臭化メチル	Bromomethane	74-83-9	Same as above	Same as above	Ozone layer protection law Substances in Annex E, Montreal Protocol
97	クロロエチレン	Ethene, chloro-	75-01-4	Same as above		Soil Contamination Countermeasures Act Type 1 Designated Hazardous Substance (volatile organic compound)
98	四塩化炭素	Tetrachloromethane	56-23-5			
99	1,2-ジクロロエタン	1,2-Dichloroethane	107-06-2			
100	1,1-ジクロロエチレン	Ethene, 1,1-dichloro-	75-35-4			
101	シス-1,2-ジクロロエチレン	Cis-dichloroethylene	156-59-2			
102	1,3-ジクロロプロペン	1,3-Dichloroprop-1-ene	542-75-6			
103	ジクロロメタン	Dichloromethane	75-09-2			
104	テトラクロロエチレン	Tetrachloroethylene	127-18-4			
105	1,1,1-トリクロロエタン	1,1,1-Trichloroethane	71-55-6			
106	1,1,2-トリクロロエタン	1,1,2-Trichloroethane	79-00-5			
107	トリクロロエチレン	Trichloroethylene	79-01-6			
108	ベンゼン	Benzene	71-43-2			

Appendix

11-6. Additional restricted substances in packaging materials

<Materials used for packaging materials>	Restricted substances	Threshold level
Corrugated cardboard, paints, inks, tapes, cable ties, labels, cushions, bags, staples, aluminum foil bags, trays, reels, carrier tapes, magazine sticks, etc.	Heavy metals	Less than 100 ppm is determined as the allowable total-concentration of four heavy metals contained in each material that constitutes a package. *5
	- Cadmium *4 (< 5 ppm)	
	- Lead	
	- Hexavalent chromium	
	- Mercury	
In addition, packaging materials that touch the product directly such as blue sheet and separator	Phthalate compounds	Phthalate compounds Threshold is <900ppm in single substance, or <900 in total substances
	· Bis(2-ethylhexan-1-yl) phthalate(DEHP)	
	· Butyl benzyl phthalate(BBP)	
	· Dibutyl phthalate(DBP)	
	· Diisobutyl phthalate(DIBP)	

Appendix

11-7.Submission of data of detailed analysis

[Target analysis data]

Target components and analysis contents with regard to individual homogeneous materials included in results or analysis report ('X' indicates target, and '-' not target)

* In order to satisfy our customers' requirements, suppliers may be requested to analyze substances other than ten RoHS2 substances.

Target components	Cd	Pb	Cr6+	Hg	PBB	PBDE	DEHP	BBP	DBP	DIBP	Br	Cl
Plastics, synthetic fabric, films, adhesive tape, rubbers, adhesives, paints, inks, and wiring (insulation) *1	X	X	X	X	X	X	X	X	X	X	X	X
Metals, plating *2, ceramics, glass, etc.	X	X	X	X	X	X	-	-	-	-	-	-
Packaging materials	X	X	X	X	-	-	-	-	-	-	-	-

*1: Refer to Section 3 "Definitions of Terms: 4) Plastics" in the Green Procurement Standard.

*2: If your product has plated areas, please submit data of detailed analysis of plated materials, not data of plating solution (please conduct a detailed analysis of plating-tested products).

Notes

- 1) Measurement results are to be values including the amount of impurities and contamination.
- 2) In cases where Citizen Electronics' customers impose time limits on the validity of analysis data or require additional analysis data of substances other than specified above, suppliers may be requested to resubmit data as needed.

Please conduct an analysis as follows.

Abbreviated analysis (X-ray fluorescence analysis) results are not acceptable.

Target substances	Analysis methods
Cd	According to latest IEC62321
Pb	
Cr6+	
Hg	
PBBs	
PBDEs	
DEHP	
BBP	
DBP	
DIBP	
Cl	According to latest IN14582
Br	According to latest US EPA 3050B or EPA 3052
Be	

[Items to be recorded in data of detailed analysis]

- 1 Name of sample (name should be related to data to be submitted concerning individual homogeneous materials)
- 2 Preconditioning method: If an official standard was used, its name, and if other than an official standard was used, indicate so.
- 3 Measurement method: Enter the name of the measurement method or the name of the official standard.
- 4 Name of the analysis institution and its seal or signature
- 5 Name of the persons who were in charge of the analysis institution and made the measurements.
- 6 Measurement date
- 7 Measurement results (If N.D. {not detected}, the lower quantification limit is also reported.)
- 8 Measurement flowchart
- 9 Preconditioning results: For the preconditioning method for Cadmium, Lead, and Mercury, please be sure to indicate the fact that the sample has been totally absorbed and dissolved by entering 'Totally Dissolved.'
- 10 Photograph of measurement sample

[Expiration date of analysis result reports]

Please submit a report issued within one year of the measurement date.

Otherwise, we may ask you to resubmit the report stated above.

In principle, analysis data is required to be submitted in English.

[Analysis institutions]

We may ask you to submit data issued by a third party analysis institution accredited with ISO/IEC17025.

[Other analysis]

We may ask you to submit data on beryllium for metals and PFOS/PFOA for inks and paints.

Appendix

11-8.Survey on certain substances designated by customer's requirements

If this standard does not meet our customer's environmental standard, we may ask you to conduct an individual survey different from this standard. Your cooperation is appreciated.

- Ex.
- Data of detailed analysis and certificate of non-use of phthalates
 - Data of detailed analysis and content survey on antimony, chlorine and bromine content
- * When we ask you to conduct a survey, we will send an individual survey form for each survey.