

[There is no need to attach this sheet]

**Notes for inputting "Report on Chemical Substances Contained in the Product (ver.9.0)"**

1 This report consists of following sheets :

Sheet	Content
A.RoHS	A1. Presence of banned substances in the product A2. Presence of banned substances depending on application
B.Others	B1. Presence of banned substances in the product B2. Presence of banned substances depending on application B3. Ozone-depleting substances contained in the product or used in manufacturing
A (appendix). RoHS	A2-Appendix
B (appendix). Others	B2-Appendix

**Note)** All newly-adopted parts and materials.

Packaging which is used for delivered parts/materials is applied.

Please report the substances containing in the packaging with the same standard (threshold).

However, the packaging is not applicable when it is clear that packaging will be discarded at Sharp site and no possibility of migration and adulteration of object substances to the parts and the materials.

Regarding "A2-Appendix" and "B2-Appendix",  
please attach when the "banned substances depending on application" in A2 and/or B2 are contained.

2 Please fill the contents below:

Sheet	Content
A.RoHS	"Date" "Company name", "Department"
B.Others	"Writer" "Responsible Person" (Signature or, input and seal)

3 In the fields of "Information on surveyed product" on the sheet "A. RoHS", please fill the contents below:

Fields	Content
1) Sharp Part Code	The product code assigned by Sharp
2) Product Name	The name of the product which you deliver
3) Manufacturer's Model Code	The model code assigned by your company
4) Product Weight [g]	The weight of the product which you deliver

4 When inputting into each sheet directly,  
please select the answer from the drop-down list of each criteria.

5 In case of changing the description of this report,  
please send promptly the revised report to Sharp.

To: SHARP Corporation

Date (yyyy/mm/dd) \_\_\_\_\_

Company Name \_\_\_\_\_

Department \_\_\_\_\_

## Report on Chemical Substances Contained in the Product (ver.9.0)

(Former name: Report on Environmental Impact Substances Contained in the Product)

We report the following verified results on the chemical substances.

### Information on surveyed product

1) Sharp Part Code \_\_\_\_\_

2) Product Name \_\_\_\_\_

3) Manufacturer's Model Code \_\_\_\_\_

4) Product Weight [g] \_\_\_\_\_

## A.RoHS-related

### A1.Presence of banned substances in the product

< Meet criteria: "Applicable", Do not meet criteria: "Not Applicable" >

No.	Substances	Check point (Criteria) *1)	Result
1	Hexavalent chromium compound *2)	Content is 1000ppm or less. However, content is less than 3ppm of the dry weight of the leather in leather articles and parts coming into contact with the skin.	< Applicable / Not Applicable >
2	Polybrominated biphenyls (PBBs)	Content is 1000ppm or less.	< Applicable / Not Applicable >
3	Polybrominated diphenyl ethers (PBDEs)	Content is 1000ppm or less.	< Applicable / Not Applicable >
4	Diisobutyl phthalate (DIBP)	Content is 1000ppm or less.	< Applicable / Not Applicable >
5	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP)	Content is 1000ppm or less, respectively. In case of use in toy, total content of 3 substances (DEHP, DBP, BBP) is 1000ppm or less.	< Applicable / Not Applicable >

\*1) Unit for calculating content rate is homogeneous material if not otherwise specified.

**Note) When the result shows "Not Applicable", the product is not adopted by SHARP in principle.**

### A2.Presence of banned substances depending on application

< Meet criteria: "Applicable", Do not meet criteria: "Not Applicable" >

No.	Substances	Check point (Criteria) *1)	Result
1	Cadmium and its compound *2)	Content is 100ppm or less. Regarding batteries, complying with the EU Battery Directive (2006/66/EC, 2013/56/EU).	< Applicable / Not Applicable >
2	Lead and its compound *2)	Content in plastics is 300ppm or less. Content in others is 1000ppm or less. Regarding batteries, complying with the EU Battery Directive (2006/66/EC, 2013/56/EU). However, in case of use in toy/products for children, answer related criteria in A2-Appendix Table.	< Applicable / Not Applicable >
3	Mercury and its compound *2)	Content is 1000ppm or less. Regarding batteries, complying with the EU Battery Directive (2006/66/EC, 2013/56/EU).	< Applicable / Not Applicable >

\*1) Unit for calculating content rate is homogeneous material if not otherwise specified.

\*2) On EU Directive on Packaging etc., for packaging part and packaging material, the total concentration of these four heavy metals in part/material, ink and paint which constitute a package is 100ppm or less each.

When the result shows "Not Applicable", we complete the A2-Appendix where the use of each substance is detailed and attach it.

## B.Others

### B1.Presence of banned substances in the product

< Meet criteria: "Applicable", Do not meet criteria: "Not Applicable" >

No.	Substances	Check point (Criteria) *1)	Result
1	Tributyl Tin Oxide (TBTO)	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
2	Tri-substituted organostannic compounds	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
3	Polychlorinated biphenyls (PCBs) and specific substitutes	Not intentionally added.	< Applicable / Not Applicable >
4	Polychlorinated naphthalenes	Not intentionally added. (Chlorine atom 1-8 are subject to the regulation.)	< Applicable / Not Applicable >
5	Short chain chlorinated paraffin	Not intentionally added. (Only C:10-13 are subject to the regulation.)	< Applicable / Not Applicable >
6	Asbestos	Not intentionally added.	< Applicable / Not Applicable >
7	Polychlorinated Terphenyls (PCTs)	Content is 50ppm or less. Not intentionally added.	< Applicable / Not Applicable >
8	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	Not intentionally added.	< Applicable / Not Applicable >
9	Hexabromocyclododecane (HBCDD)	Content is 100ppm or less. Not intentionally added.	< Applicable / Not Applicable >
10	Cobalt dichloride	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
11	Dimethyl fumarate	Content is 0.1ppm or less. Not intentionally added.	< Applicable / Not Applicable >
12	Refractory Ceramic Fibers, Aluminosilicate	Not intentionally added.	< Applicable / Not Applicable >
13	Refractory Ceramic Fibers, Zirconia Aluminosilicate	Not intentionally added.	< Applicable / Not Applicable >
14	Dibutyltin (DBT) compounds	Content is 1000ppm or less by weight of tin in a material.	< Applicable / Not Applicable >

\*1) Unit for calculating content rate is homogeneous material if not otherwise specified.

**Note) When the result shows "Not Applicable", the product is not adopted by SHARP in principle.**

### B2.Presence of banned substances depending on application

< Meet criteria: "Applicable", Do not meet criteria: "Not Applicable" >

No.	Substances	Check point (Criteria) *1)	Result
1	Beryllium and its compound	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
2	Azo colorants	Not intentionally added.	< Applicable / Not Applicable >
3	Polyvinyl Chloride and its copolymer	Not intentionally added.	< Applicable / Not Applicable >
4	Phthalates other than the four RoHS-related Phthalates.	Content is 1000ppm or less regarding other than following four phthalates. Bis(2-ethylhexyl)phthalate:DEHP, Dibutyl phthalate: DBP, Bis(butylbenzyl) phthalate: BBP, Diisobutyl phthalate: DIBP,	< Applicable / Not Applicable >
5	Radioactive substances	Not intentionally added.	< Applicable / Not Applicable >
6	Perfluorooctane sulfonate (PFOSs) *2)	Not intentionally added, and Content in substance/preparation is 50ppm or less, Content of sub-product/article etc. except substance/preparation is 1000ppm or less, Content of coating agent is 1µg/m <sup>2</sup> or less.	< Applicable / Not Applicable >
7	Fluorinated greenhouse gases (HFC, PFC, SF6)	Not intentionally added.	< Applicable / Not Applicable >
8	Formaldehyde	Wood component: atmospheric concentration is 0.1ppm or less (by the chamber method). Plastics/fibers: content is 75ppm or less.	< Applicable / Not Applicable >
9	Perchlorates	Not intentionally added. (Only battery is targeted by this survey. No response is necessary except battery)	< Applicable / Not Applicable >

<Continued on the next page.>

< Continued from the previous page.>

No.	Substances	Check point (Criteria) *1)	Result
10	Nickel and its compound	Not intentionally added.	< Applicable / Not Applicable >
11	Arsenic and its compound	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
12	Boric acid	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
13	Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
14	Diocetyl tin (DOT) compounds	Content is 1000ppm or less by weight of tin in a material.	< Applicable / Not Applicable >
15	Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA *3)	Not intentionally added, and content of coating agent is less than 1µg/m <sup>2</sup> and content of the others is 1000ppm or less.	< Applicable / Not Applicable >
16	Chlorinated flame retardants	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
17	Tris (2-chloroethyl) phosphate (TCEP)	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
18	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
19	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >
20	Polycyclic aromatic hydrocarbons (PAHs)	Content is less than 1ppm regarding target PAHs *4).	< Applicable / Not Applicable >
21	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	Not intentionally added.	< Applicable / Not Applicable >
22	Red phosphorus	Content is 1000ppm or less. Not intentionally added.	< Applicable / Not Applicable >

\*1) Unit for calculating content rate is homogeneous material if not otherwise specified.

\*2) As for "Perfluorooctane sulfonate (PFOSs) and its salt", Scoped substances CAS No. (1763-23-1, 307-35-7, 29457-72-5, 2795-39-3).

\*3) Total content of substances with following CAS No. (335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5).

\*4) Scoped substances CAS No. (50-32-8, 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, 53-70-3).

When the result shows "Not Applicable", we complete the B2-Appendix where the use of each substance is detailed and attach it.

### B3. Ozone-depleting substances contained in the product or used in manufacturing

< Meet criteria: "Applicable", Do not meet criteria: "Not Applicable" >

No.	Substances	Check point (Criteria) *1)	Result
1	Ozone-depleting substances [regulated by the Montreal Protocol (Class I and II)] *1)	(1) Not contained in part/materials.	< Applicable / Not Applicable >
		(2) Using printed wiring boards (PWBs) in the product	< Yes / No >
		(3) Not used in the rinse process. (If the result in the item (2) is YES only, answer this item) (Even if "Not used" is selected, that means you didn't use these substances to rinse process, describe rinse solution and method of the rinse process.)	< Used / Not Used >
		Rinse solution :	
	Rinse method :		

\*1) Regarding Ozone-depleting substances, scoped substances are CFC, 1,1,1-trichloroethane, Carbon tetrachloride, Bromochloromethane, Halon, HBFC and HCFC.

**Note) When "Not Applicable" and/or "Used" is selected on the Result, the part or material is prohibited by the SHARP standard.**

Writer

\_\_\_\_\_

Responsible Person

\_\_\_\_\_

(Signature or seal)

**A2-Appendix**

Regarding items whose confirmatory result are "Not Applicable" in clause A2, "X" are entered in the result column as the result of the confirmation pursuant to the criteria.

Substances	No.	Check point (Criteria)	RoHS Exemption *1)	Result		
<b>1 Cadmium and its compound</b>						
<b>Banned</b>	(1)	Used in every application other than the following (2)-(4).	-			
	<b>Usable</b>	(2)	Used for electrical contacts.	8(b)		
		(3)	Used in filter glass.	13(b)		
		(4)	Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	EU RoHS directive Annex No. :	-	< AnnexIII / AnnexIV >
				RoHS Exemption No. :	-	
<b>2 Lead and its compound</b>						
<b>Banned</b>	(1)	Used in products for children 12 and under, containing lead exceeding 0.01wt% per armored part.	-			
	(2)	Used in parts/material used in toys, containing lead above 0.009% per surface treatment layer such as coating.	-			
	(3)	Used in every application other than the following (4)-(13).	-			
<b>Usable</b>	(4)	Used in high-melting point solder (lead-based alloys containing 85 % by weight or more lead).	7(a)			
	(5)	Used in electrical and electronic components in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	7(c)-I			
	(6)	Used less than 0.2% by weight in glass of fluorescent tubes.	5(b)			
	(7)	Contained as an alloying element	(a) Used less than 0.35% by weight in steel alloy.	6(a)		
			(b) Used less than 0.4% by weight in aluminium alloy.	6(b)		
			(c) Used less than 4% by weight in copper alloy.	6(c)		
	(8)	Used in solder for connecting semiconductor dies and carriers in flip chip IC packages.	15			
	(9)	Used in white glass or filter glass used for an optical purpose.	13(a)			
	(10)	Used in shell (exterior casing) or bushing (a cylindrical component fitted inside a hole) of a bearing for a compressor containing coolant for heating, ventilation, air-conditioning, refrigeration, chilling, and HVACR.	9(b)			
	(11)	Used in dielectric ceramic used in a capacitor with rated voltage of 125V AC or 250V DC or larger.	7(c)-II			
	(12)	Used in PZT-based dielectric ceramic materials in a capacitor part of an IC chip or a discrete semiconductor. (single function semiconductor)	7(c)-IV			
	(13)	Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	EU RoHS directive Annex No. :	-	< AnnexIII / AnnexIV >	
			RoHS Exemption No. :	-		
<b>3 Mercury and its compound</b>						
<b>Banned</b>	(1)	Used in every application other than the following (2)-(5).	-			
	<b>Usable</b>	(2)	Used in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (per lamp):	(a) Short length (≤ 500 mm): under 3.5mg	3(a)	
				(b) Medium length (> 500 mm and ≤ 1500 mm): under 5mg	3(b)	
				(c) Long length (> 1500 mm): under 13mg	3(c)	
		(3)	Used in metal halide lamps (MH).	4(e)		
	(4)	Used in other discharge lamps for special purposes specified in of EU RoHS directive Annex III 4(f) (2011/65/EU).	4(f)			
	(5)	Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	EU RoHS directive Annex No. :	-	< AnnexIII / AnnexIV >	
			RoHS Exemption No. :	-		

\*1) The number of this column is that of an exempted application of EU RoHS directive Annex III (2011/65/EU).

**B2-Appendix**

Regarding items whose confirmatory result are "Not Applicable" in clause B2, "X" are entered in the result column as the result of the confirmation pursuant to the criteria.

Substances	No.	Check point (Criteria)	Result
<b>1 Beryllium and its compound</b>			
<b>Banned</b>	(1)	Using Beryllium oxide.	
	(2)	Used in the other than the following (3).	
Usable	(3)	Used in the exception items.	
	(a)	Alloy	
	(b)	Ceramics	
	(c)	Glass	
	(d)	Semiconductor	
<b>2 Azo colorants</b>			
<b>Banned</b>	(1)	Used in a contact part with human body of a product (e.g. : electric carpet, earphone, strap and etc.) which is manufactured based on the premise that the product continuously contacts human body, and may produce carcinogenic amine over 30ppm when decomposed.	
Usable	(2)	Used in every application other than the above (1). (Used in a part which does not continuously contact with human body)	
<b>3 Polyvinyl Chloride and its copolymer</b>			
<b>Banned</b>	(1)	Used in packaging material and packaging part for Sharp product.	
Usable	(2)	Used in the other than the above (1).	
<b>4 Phthalates other than the four RoHS related Phthalates.</b>			
<b>Banned</b>	(1)	Diisononyl Phthalate:DINP, Diisodecyl phthalate:DIDP or Di-n-octyl phthalate:DNOP is used in parts/materials that is used in products for children 12 and under (over 1000ppm in total).	
Usable	(2)	Used other than the above (1).	
<b>5 Radioactive substances</b>			
<b>Banned</b>	(1)	Used in the other than the following (2)-(3).	
Usable	(2)	Using "Thorium" in the magnetron of a microwave oven.	
	(3)	Using "Krypton 85" in the electric bulb for a LCD projector.	
<b>6 Perfluorooctane sulfonate (PFOSs)</b>			
<b>Banned</b>	(1)	Used in the other than the following (2)-(4).	
Usable	(2)	Used in photoresists and antireflection coating for the photolithography process.	
	(3)	Used in photo coating used in printing plates, film, and documents.	
	(4)	Used in mist suppressants for hard chrome plating, and moistening agent used in equipment for plating.	
<b>7 Fluorinated greenhouse gases (HFC, PFC, SF6)</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	Use for the refrigerant and/or the thermal insulator (HFC only).	
<b>8 Formaldehyde</b>			
<b>Banned</b>	(1)	Used in wooden parts.	
	(2)	Used in a direct human body contact part of a product which is intended to continuously contact with human body. (e.g.: electric carpet, earphone, strap and etc.)	
Usable	(3)	Used in the other than the above (1)-(2).	
<b>9 Perchlorates</b>			
Usable	(1)	Contained above 6ppb by weight per battery. (Necessary to caution on operation manual)	
	(2)	Contained less than 6ppb by weight per battery.	
<b>10 Nickel and its compound</b>			
<b>Banned</b>	(1)	Used in parts which continuously contact with human skin for a long time.	
Usable	(2)	Used in the other than the above (1).	

< Continued on the next page.>

< Continued from the previous page.>

Substances	No.	Check point (Criteria)	Result
<b>11 Arsenic and its compound</b>			
<b>Banned</b>	(1)	Using Diarsenic Pentoxide	
	(2)	Used in the other than the following (3)-(4).	
Usable	(3)	Used in the lamp of LCD projector. (Diarsenic trioxide)	
	(4)	Used for the exception items.	
		(a) Semiconductor	
		(b) Resist	
		(c) Magnet filter	
		(d) Copper foil	
	(e) Battery		
<b>12 Boric acid</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	Used for applications below;	
		(a) Polarizers (made of PVA)	
		(b) Glass	
		(c) Adhesive agent	
<b>13 Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	Used for applications below;	
		(a) Polarizers (made of PVA)	
		(b) Glass	
		(c) Adhesive agent	
		(d) Fiber	
<b>14 Dioctyltin (DOT) compounds</b>			
<b>Banned</b>	(1)	Used for two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).	
Usable	(2)	Used in the other than the above (1).	
<b>15 Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA</b>			
<b>Banned</b>	(1)	Used in the other than the following (2)-(4).	
Usable	(2)	Used in photoresists and antireflection coating for the photolithography process.	
		Used in photo coating used in printing plates, film, and documents.	
		Used in mist suppressants for hard chrome plating, and moistening agent used in equipment for plating.	
<b>16 Chlorinated flame retardants</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	It is difficult to substitute, and a permission from the adoption decision department in Sharp was obtained.	
		(Required fields) Reason for "difficult to substitute" and Point of use ( )	
<b>17 Tris (2-chloroethyl) phosphate (TCEP)</b>			
<b>Banned</b>	(1)	Used in products for children 12 and under or home furnishings covered with fiver.	
Usable	(2)	Used in the other than the above (1).	
<b>18 Tris(2-chloro-1-methylethyl) phosphate (TCPP)</b>			
<b>Banned</b>	(1)	Used in products for children 12 and under or home furnishings covered with fiver.	
Usable	(2)	Used in the other than the above (1).	
<b>19 Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)</b>			
<b>Banned</b>	(1)	Used in products for children 12 and under or home furnishings covered with fiver.	
Usable	(2)	Used in the other than the above (1).	
<b>20 Polycyclic aromatic hydrocarbons (PAHs)</b>			
<b>Banned</b>	(1)	Used in rubber or plastic components that come into direct as well as prolonged or shortterm repetitive contact with the human skin or the oral cavity.	
Usable	(2)	Used in the other than the above (1).	
<b>21 Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)</b>			
<b>Banned</b>	(1)	Used in every application other than the following (2).	
Usable	(2)	Used in rubber except in tires.	
<b>22 Red phosphorus</b>			
<b>Banned</b>	(1)	Used in plastic or rubber.	
Usable	(2)	Used in the other than the above (1).	
		Used in the above (1) , and it is difficult to substitute, and a permission from the adoption decision department in Sharp was obtained.	
		(Required fields) Reason for "difficult to substitute" and Point of use ( )	

[There is no need to attach this sheet]

### Revision point from ver.8.1

This report name was changed "Report on Environmental Impact Substances Contained in the Product" to "Report on Chemical Substances Contained in the Product (ver.9.0)".

#### List of surveyed substances

No.	Ver.8.0 , Ver.8.1	Ver.9.0	Remarks (Change etc.)
	Substances	Substances	
<b>A1.RoHS-related Presence of banned substances in the product</b>			
1	Hexavalent chromium compound	<-	
2	Polybrominated biphenyls (PBBs)	<-	
3	Polybrominated diphenyl ethers (PBDEs)	<-	
4	Diisobutyl phthalate (DIBP)	<-	
5	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP)	<-	
<b>A2.RoHS-related Presence of banned substances depending on application</b>			
1	Cadmium and its compound	<-	
2	Lead and its compound	<-	
3	Mercury and its compound	<-	
<b>B1.Others Presence of banned substances in the product</b>			
1	Tributyl Tin Oxide (TBTO)	<-	
2	Tri-substituted organostannic compounds	<-	
3	Polychlorinated biphenyls (PCBs) and specific substitutes	<-	
4	Polychlorinated naphthalenes	<-	
5	Short chain chlorinated paraffin	<-	
6	Asbestos	<-	
7	Polychlorinated Terphenyls (PCTs)	<-	
8	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	<-	
9	Hexabromocyclododecane (HBCDD)	<-	Changed content rates from 1000ppm to 100ppm in Check point. (in accordance with revision of EU POPs regulation)
10	Cobalt dichloride	<-	
11	Dimethyl fumarate	<-	
12	Refractory Ceramic Fibers, Aluminosilicate	<-	
13	Refractory Ceramic Fibers, Zirconia Aluminosilicate	<-	
14	Dibutyltin (DBT) compounds	<-	
<b>B2.Others Presence of banned substances depending on application</b>			
1	Beryllium and its compound	<-	
2	Azo colorants	<-	
3	Polyvinyl Chloride and its copolymer	<-	
4	Phthalates	<-	
5	Radioactive substances	<-	
6	Perfluorooctane sulfonate (PFOSs)	<-	
7	Fluorinated greenhouse gases (HFC, PFC, SF6)	<-	
8	Formaldehyde	<-	
9	Perchlorates	<-	
10	Nickel	Nickel and its compound	Changed Substance name. (matched the description of base legal (EU REACH Annex XVII))
11	Arsenic and its compound	<-	
12	Boric acid	<-	
13	Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate	<-	
14	Dioctyltin (DOT) compounds	<-	
15	Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA	<-	
16	Chlorinated flame retardants	<-	Changed "Reason for difficult to substitute" to required fields
17	Tris (2-chloroethyl) phosphate	<-	Added substance abbreviation.
18	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	<-	
19	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<-	
20	Polycyclic aromatic hydrocarbons (PAHs)	<-	
21	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	<-	
22	-	Red phosphorus	Added as a voluntary standard.
<b>B3.Others Ozone-depleting substances contained in the product or used in manufacturing</b>			
	Ozone-depleting substances	<-	



[There is no need to attach this sheet]

List of main reference laws

No.	Substances	Main reference laws etc.
<b>A1. RoHS-related Presence of banned substances in the product</b>		
1	Hexavalent chromium compound	EU RoHS directive, EU REACH regulation Annex XVII
2	Polybrominated biphenyls (PBBs)	EU RoHS directive, EU REACH regulation Annex XVII
3	Polybrominated diphenyl ethers (PBDEs)	Japan CSCL, EU RoHS directive, EU REACH regulation Annex XVII
4	Diisobutyl phthalate (DIBP)	EU RoHS directive(EU COMMISSION DELEGATED DIRECTIVE 2015/863)
5	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP)	EU RoHS directive(EU COMMISSION DELEGATED DIRECTIVE 2015/863), EU REACH regulation Annex XVII, USA CPSIA
<b>A2. RoHS-related Presence of banned substances depending on application</b>		
1	Cadmium and its compound	EU RoHS directive, EU REACH regulation Annex XVII
2	Lead and its compound	EU RoHS directive, EU REACH regulation Annex XVII, USA CPSIA
3	Mercury and its compound	EU RoHS directive, EU REACH regulation Annex XVII
<b>B1. Others Presence of banned substances in the product</b>		
1	Tributyl Tin Oxide (TBTO)	Japan CSCL
2	Tri-substituted organostannic compounds	Japan CSCL, EU REACH regulation Annex XVII
3	Polychlorinated biphenyls (PCBs) and specific substitutes	Japan CSCL, EU POPs regulation Annex I
4	Polychlorinated naphthalenes	Japan CSCL, EU POPs regulation Annex I
5	Short chain chlorinated paraffin	EU REACH regulation Annex XVII, EU POPs regulation Annex I
6	Asbestos	Japan Industrial Safety and Health Act, EU REACH regulation Annex XVII
7	Polychlorinated Terphenyls (PCTs)	EU REACH regulation Annex XVII
8	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-	Japan CSCL
9	Hexabromocyclododecane (HBCDD)	Japan CSCL, EU POPs regulation
10	Cobalt dichloride	(EU REACH regulation) (*)
11	Dimethyl fumarate	EU REACH regulation Annex XVII
12	Refractory Ceramic Fibers, Aluminosilicate	(EU REACH regulation)
13	Refractory Ceramic Fibers, Zirconia Aluminosilicate	(EU REACH regulation)
14	Dibutyltin (DBT) compounds	EU REACH regulation Annex XVII
<b>B2. Others Presence of banned substances depending on application</b>		
1	Beryllium and its compound	-
2	Azo colorants	EU REACH regulation Annex XVII
3	Polyvinyl Chloride and its copolymer	-
4	Phthalates	EU REACH regulation Annex XVII, USA CPSIA
5	Radioactive substances	Act on Prevention of Radiation Hazards due to Radioisotopes, etc., Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors
6	Perfluorooctane sulfonate (PFOSs)	Japan CSCL, EU POPs regulation Annex I, Canadian Environmental Protection Act
7	Fluorinated greenhouse gases (HFC, PFC, SF6)	EU F-Gas Regulation(517/2014)
8	Formaldehyde	Germany Chem Verbots V, Denmark formaldehyde regulations
9	Perchlorates	USA CA Perchlorate management rules
10	Nickel	EU REACH regulation Annex XVII
11	Arsenic and its compound	(EU REACH regulation)
12	Boric acid	(EU REACH regulation)
13	Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate	(EU REACH regulation)
14	Dioctyltin (DOT) compounds	EU REACH regulation Annex XVII
15	Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA	Norway Product Regulation
16	Chlorinated flame retardants	<Sharp own forbiddance>
17	Tris (2-chloroethyl) phosphate (TCEP)	USA VT Act85, (EU REACH regulation)
18	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	USA VT Act85
19	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	USA VT Act85
20	Polycyclic aromatic hydrocarbons (PAHs)	EU REACH regulation Annex XVII
21	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	Canadian Prohibition of Certain Toxic Substances Regulations2012
22	-	<Sharp own forbiddance>
<b>B3. Others Ozone-depleting substances contained in the product or used in manufacturing</b>		
	Ozone-depleting substances	Montreal Protocol, USA Chlorofluorocarbon tax

(\*) "(EU REACH regulation)" means the substance which was listed in Authorisation List of SVHC.