

Notes for inputting "Report on Chemical Substances Contained in the Product "
(Former name:"Report on Environmental Impact Substances Contained in the Product")
for Device Business Group※ ver.10.0.

※Device Business Group : Electronic Components and Devices BU, Sensor Module BU, Camera Module BU, and Display Device Company

1. This report consists of following sheets :

Sheet	Content	Page
A. RoHS	A1. Presence of banned substances in the product A2. Presence of banned substances depending on application	1/3
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	2/3 ~ 3/3
A (appendix). RoHS	A2-Appendix	RoHS (appendix) 1/1
B (appendix). Others	B2-Appendix	Others (appendix) 1/2 ~ 2/2
C. Device	Report on Chemical Substances contained in product for Device Business Units and Company	1/2~2/2
C (appendix).Device	C2-Appendix	1/1

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.

"A.RoHS", "B.Others", "A (appendix) .RoHS", "B (appendix) .Others" are Sharp common sheets,

"C.Device" , "C(appendix).Device" sheets are those that Device Business Group requires.

Please submit all of the sheets. Regarding "A2-Appendix", "B2-Appendix"and "C2-Appendix"

please attach when the "banned substances depending on application" in A2, B2 and/or C2 are contained.

2. In this report, there are entry fields as follows:

< On the top of the sheet "A. RoHS", "C.Device">

- "Date"

- "Company name"

- "Department"

< On the bottom of the sheet "B. Others", "C.Device">

- "Responsible by" and his/her signature or seal

- "Written by" and his/her signature or seal

Please fill in above fields.

Use only Japanese or English, don't use other language.

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

1) Product Name : the name of the product which you deliver

2) Sharp Part Code : the product code assigned by Sharp

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.10.0)

(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 ² 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 ² 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	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 "input name and 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
1 Cadmium and its compound				
Banned	(1)	Used in every application other than the following (2)-(5).	-	
	Usable	(2) Used for electrical contacts.	8(b)	
	(3)	Used in striking optical filter glass types, excluding applications falling under point 39 of EU RoHS directive annex III [Expires on 21 July 2020 *2]]	13(b)-(II)	
	(4)	Used in white glass used for an optical purpose [Expires on 21 July 2020 *2]]	13(b)-(III)	
	(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. :	-	
2 Lead and its compound				
Banned	(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)-(15).	-	
Usable	(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 used for an optical purpose [Expires on 21 July 2020 *2]]	13(a)	
	(10)	Used in ion coloured optical filter glass types [Expires on 21 July 2020 *2]]	13(b)-(I)	
	(11)	Used in glazes used for reflectance standards [Expires on 21 July 2020 *2]]	13(b)-(III)	
	(12)	Used in bearing shells and bushes for refrigerant- containing hermetic scroll compressors with a stated electrical power input equal or below 9kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications [Expires on 21 July 2028 *2]]	9(b)-I	
	(13)	Used in dielectric ceramic used in a capacitor with rated voltage of 125V AC or 250V DC or larger.	7(c)-II	
	(14)	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	
	(15)	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. :		-		
3 Mercury and its compound				
Banned	(1)	Used in every application other than the following (2)-(5).	-	
	Usable	(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)	
		Medium length (> 500 mm and ≤ 1500 mm): under 5mg	3(b)	
		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) .

*1) It is a date to prohibit use on deliveries to SHARP. The expiry date described here is different from the date regulated by EU RoHS directive (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
1 Beryllium and its compound			
Banned	(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	
2 Azo colorants			
Banned	(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)	
3 Polyvinyl Chloride and its copolymer			
Banned	(1)	Used in packaging material and packaging part for Sharp product.	
Usable	(2)	Used in the other than the above (1).	
4 Phthalates other than the four RoHS related Phthalates.			
Banned	(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).	
5 Radioactive substances			
Banned	(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.	
6 Perfluorooctane sulfonate (PFOSs)			
Banned	(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.	
7 Fluorinated greenhouse gases (HFC, PFC, SF6)			
Banned	(1)	Used in the other than the following (2).	
Usable	(2)	Use for the refrigerant and/or the thermal insulator (HFC only).	
8 Formaldehyde			
Banned	(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).	
9 Perchlorates			
Usable	(1)	Contained above 6ppb by weight per battery. (Necessary to caution on operation manual)	
	(2)	Contained less than 6ppb by weight per battery.	
10 Nickel and its compound			
Banned	(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.>

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Substances	No.	Check point (Criteria)	Result
11 Arsenic and its compound			
Banned	(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		
12 Boric acid			
Banned	(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	
13 Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate			
Banned	(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	
14 Dioctyltin (DOT) compounds			
Banned	(1)	Used for two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).	
Usable	(2)	Used in the other than the above (1).	
15 Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA			
Banned	(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.	
16 Chlorinated flame retardants			
Banned	(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 ()	
17 Tris (2-chloroethyl) phosphate (TCEP)			
Banned	(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).	
18 Tris(2-chloro-1-methylethyl) phosphate (TCPP)			
Banned	(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).	
19 Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)			
Banned	(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).	
20 Polycyclic aromatic hydrocarbons (PAHs)			
Banned	(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).	
21 Red phosphorus			
Banned	(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 ()	

C. Report on Chemical Substances contained in product for Device Business Units and Company
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Date: _____
 Company Name: _____
 Department: _____

We report on the chemical substances contained in the product delivered to you as follows:

1. Information on surveyed product

- 1) Product Name _____
- 2) Sharp Part Code Number _____
- 3) Manufacturer's Part Code Number _____
- 4) Place of production (Factory name) _____

2. Verified results**2-1. Presence of banned substances in the product**

No.	Substances	CAS No.	Criteria *1)	Result
1	Chemical Substances Control Law : Class I specified Chemical Substances *2)	-	Not intentionally added.	Applicable / Not Applicable
	※Chemical Substances Control Law : Class II specified Chemical Substances *3)	-	Not intentionally added.	Applicable / Not Applicable
	※Chemical Substances Control Law : Monitoring Substances *4)	-	Not intentionally added.	Applicable / Not Applicable
2	TSCA *5)	-	Not intentionally added.	Applicable / Not Applicable
3	POPs *6)	-	Not intentionally added.	Applicable / Not Applicable
4	Musk xylene	81-15-2	Not intentionally added and the content is less than 1000ppm (0.1%).	Applicable / Not Applicable
5	Nonylphenol compounds and its ethoxylate	-	Not intentionally added and the content is less than 1000ppm (0.1%).	Applicable / Not Applicable
6	Anthracenes	-	Not intentionally added and the content is less than 1000ppm (0.1%).	Applicable / Not Applicable
7	※Chlorinated paraffins: C23, 43% chlorine	108171-27-3	Not intentionally added.	Applicable / Not Applicable
8	※Medium Chain Chlorinated Paraffins (MCCP)[Group](14-19 carbons)	-	Not intentionally added.	Applicable / Not Applicable
9	※1,3-Dichloropropene	542-75-6	Not intentionally added.	Applicable / Not Applicable
10	※p-Dimethylaminoazobenzene	60-11-7	Not intentionally added.	Applicable / Not Applicable
11	※Hydrogen chloride	7647-01-0	Not intentionally added.	Applicable / Not Applicable
12	※N,N'-Ethylenebisdithiocarbamate manganese (Maneb)	12427-38-2	Not intentionally added.	Applicable / Not Applicable
13	※1-Naphthylamine	134-32-7	Not intentionally added.	Applicable / Not Applicable

*1) Unit for calculating content rate is homogeneous material.

*2) Japan Chemical Substances Control Law : Class I specified Chemical Substances

*3) Japan Chemical Substances Control Law : Class II specified Chemical Substances

*4) Japan Chemical Substances Control Law : Monitoring Substances

*5) Toxic Substances Control Act: TSCA(US) Banned or restricted substances (Section 6)

*6) EU POPs Regulation (EC) 850/2004 ANNEX I

※ Device Group-Specific Survey-Targeted Chemical Substances

2-2. Presence of banned substance depending on application

If the check result does not meet the criteria, we will decide whether to use it on C2 - appendix.

No.	Substances		Criteria *1)	Result
1	REACH regulation Restricted substances listed in Appendix A *7)	-	Not intentionally added.	Applicable/Not Applicable
2	Antimony trioxide	-	The content of Antimony trioxide is less than 1000ppm.	Applicable/Not Applicable
3	※Polyvinyl chloride	9002-86-2	Not intentionally added.	Applicable/Not Applicable
4	※Natural rubber	-	Not intentionally added.	Applicable/Not Applicable
5	※Tetrachlorophthalic anhydride	117-08-8	Not intentionally added.	Applicable/Not Applicable
6	※Red phosphorus	7723-14-0	Not intentionally added.	Applicable/Not Applicable
7	※Halogen substances (Chlorine, Bromine) *8)	-	It satisfies all of the following conditions (1), (2) and (3).	Applicable/Not Applicable
			(1) The content of "Chlorine" is less than 900 ppm (0.09%)	
			(2) The content of "Bromine" is less than 900 ppm (0.09%)	
			(3) The content of the total of "Chlorine" and "Bromine" is less than 1500ppm (0.15%)	

*1) Unit for calculating content rate is homogeneous material.

*7) EU REACH Regulation (No 1907/2006) ANNEX XVII

*8) Please submit an analysis report on halogen substances and phthalates, only when there is the request from the Sharp's department. And please ensure that it is the report on the result of examination issued by analytical organization.

※ Device Group-Specific Survey-Targeted Chemical Substances

3. Points to be checked on phthalate usage condition (process control)

6 phthalates: ("DEHP(DOP) (CAS No.117-81-7)", "DBP(CAS No.84-74-2)", "BBP (CAS No.85-68-7)", "DINP(CAS No.28553-12-0/68515-48-0)", "DIDP(CAS No.26761-40-0/68515-49-1)", "DNOP(CAS No.117-84-0)")

No.	Criteria	Verified results
1	6 phthalates shown above are handled as raw materials.(including by-product material)	Yes/No
2	(If the answer of "No.1" is "YES") The production facility where the above phthalates are handled is used as the facility for products to be supplied to Sharp.	Yes/No
3	(If the answer of "No.2" is "YES") Regarding the method for preventing the phthalates from being contained in products to be supplied to Sharp, reply it on a separate sheet -Procedures for cleaning facilities, etc. -Methods for examination of lot guarantees, etc.	Answer on a separate sheet

4.Points to be checked on managed substances

If the check result does not meet the criteria, we disclose content information in chemSHERPA..

No.	Substances		Criteria *1)	Result *2)
1	Alkylphenol (C5-9) excluding nonylphenol ※	-	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
2	※Benzophenone	119-61-9	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
3	※Chromium and its Compounds excluding hexavalent chromium	-	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
4	※2,4-Dichlorophenol	120-83-2	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
5	※Ethylbenzene	100-41-4	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
6	※Isocyanate	71000-82-3	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
7	※Octachlorostyrene	29082-74-4	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
8	※Phosphorus flame retardant excluding red phosphorus	-	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable
9	※Antimony and its compounds excluding antimony trioxide(Sb2O3)	-	Content is 1000ppm or less. Not intentionally added.	Applicable/Not Applicable

※ Device Group-Specific Survey-Targeted Chemical Substances

Responsible by: _____

Written by: _____

Signature or Seal: _____

Signature or Seal: _____

C2-Appendix

Regarding items whose confirmatory result are "Not Applicable" in clause 2-2, "X" are entered in the result column as the result of the confirmation pursuant to the criteria.

Substances	No.	Check point (Criteria)	Result
1 REACH Regulation Restricted substances			
Banned	(1)	Used in every application other than the following (2),(3)	
	Usable	(2)	Remained in the article and the residual content is less than 0.1 wt% with respect to the total mass of the product.
		(3)	Remained in the article, the residual content is 0.1 wt% or more with respect to the total mass of the product, and it is difficult to substitute.
2 Antimony trioxide			
Banned	(1)	Part/material for the specific customer *1)	
	Usable	(2)	Used in every application other than the above item (1)
*1) Please confirm whether it is that for the specific customer to the part/material adopted division.			
3 Natural rubber			
Banned	(1)	Used in every application other than the following items (2),(3)	
	使用可 / Usable	(2)	Used in the applications that do not directly touch the skin.
		(3)	Used in packaging part
4 Polyvinyl chloride (PVC)			
Banned	(1)	Used in packaging material and packaging part for Sharp product.	
	(2)	Used in every application other than the following item (3).	
	Usable	(3)	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 ()			
5 Tetrachlorophthalic anhydride			
Banned	(1)	Used in every application other than the following item (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 ()			
6 Red phosphorus			
Banned	(1)	Used in external energing section	
	Usable	(2)	Used in every application other than the above item (1)
		(3)	Used in the above item (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 ()			
7 Halogen substances *1)			
Banned	(1)	Part/material for the specific customer *2)	
	Usable	(2)	Used in every application other than the above item (1)
*1) Please submit an analysis report on halogen substances and phthalates, only when there is the request from the Sharp's department. And please ensure that it is the report on the result of examination issued by analytical organization.			
*2) Please confirm whether it is that for the specific customer to the part/material adopted division.			

[There is no need to attach this sheet]

Revision point from ver.9.0

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.9.0	Ver.10.0	Remarks (Change etc.)
	Substances	Substances	
A1.RoHS-related Presence of banned substances in the product			
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)	<-	
A2.RoHS-related Presence of banned substances depending on application			
1	Cadmium and its compound	<-	Changed "Check point (Criteria)" of Appendix (in accordance with exempted application of EU RoHS directive)
2	Lead and its compound	<-	Changed "Check point (Criteria)" of Appendix (in accordance with exempted application of EU RoHS directive)
3	Mercury and its compound	<-	
B1.Others Presence of banned substances in the product			
1	Tributyl Tin Oxide (TBTO)	<-	
2	Tri-substituted organostannic compounds	<-	
3	Polychlorinated biphenyls (PCBs) and specific	<-	
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-	<-	
9	Hexabromocyclododecane (HBCDD)	<-	
10	Cobalt dichloride	<-	
11	Dimethyl fumarate	<-	
12	Refractory Ceramic Fibers, Aluminosilicate	<-	
13	Refractory Ceramic Fibers, Zirconia Aluminosilicate	<-	
14	Dibutyltin (DBT) compounds	<-	
B2.Others Presence of banned substances depending on application			
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	<-	
11	Arsenic and its compound	<-	
12	Boric acid	<-	
13	Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate	<-	
14	Diocetyl tin (DOT) compounds	<-	
15	Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA	<-	
16	Chlorinated flame retardants	<-	
17	Tris (2-chloroethyl) phosphate (TCEP)	<-	
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)	(Deleted)	Deleted from banned substance (Because it is out of prohibition substance of Canadian regulation)
22	Red phosphorus	<-	
B3.Others Ozone-depleting substances contained in the product or used in manufacturing			
	Ozone-depleting substances	<-	

C. For Device Business Units and Company		
Surveyed substances required by many customers as follow:		Like all company-wide common editions, all survey substances are restructured into three class: banned, banned depending on application, managed substances
1	Halogen substances	<- Transition to banned depending on
2	Antimony and its compounds	<- Diantimony trioxide is transferred to a banned substance depending on application, and other antimony and its compounds are transferred to managed
3	Phthalates	(Deleted) Deleted, because they were described in A1 and B2 above
4	Natural rubber	<- Transition to banned depending on
5	Phosphorus and its compounds	<- Red phosphorus is transferred to a banned substance depending on application and other phosphorus flame retardants are transferred to managed substances
Presence of banned substances in the product		
1	-	Chemical Substances Control Law : Class I Added as target substance
		Chemical Substances Control Law : Class II , Monitoring Substances Added as a voluntary standard
2	-	Toxic Substances Control Act: TSCA(US) Banned or restricted substances (Section 6) Added as target substance
3	-	EU POPs Regulation (EC) 850/2004 ANNEX I Added as target substance
4	-	Musk xylene Added as target substance
5	-	Nonylphenol compounds and its ethoxylate Added as target substance
6	-	Anthracenes Added as target substance
7	-	Chlorinated paraffins: C23, 43% Added as a voluntary standard
8		Medium Chain Chlorinated Paraffins (MCCP)[Group](14-19 carbons) Added as a voluntary standard
9	-	1,3-Dichloropropene Added as a voluntary standard
10	-	p-Dimethylaminoazobenzene Added as a voluntary standard
11	-	Hydrogen chloride Added as a voluntary standard
12	-	N,N'-Ethylenebisdithiocarbamate manganese (Maneb) Added as a voluntary standard
13	-	1-Naphthylamine Added as a voluntary standard
Presence of banned substances depending on application		
1	-	REACH regulation Restricted substances listed in Appendix A Added as target substance
2	-	Antimony trioxide Transition to banned depending on
3	-	Polyvinyl chloride Added as a voluntary standard
4	-	Natural rubber Transition to banned depending on
5	-	Tetrachlorophthalic anhydride Added as a voluntary standard
6	-	Red phosphorus Transition to banned depending on
7	-	Halogen substances (Chlorine, Transition to banned depending on
Phthalate usage condition (process control)		
		<-
Analysis situation of halogen ("Bromine" and "Chlorine") substance		(Deleted) Deleted, because the description in the report is too complicated, and analysis results are obtained on separate sheets as necessary.
Managed substances		
1		Alkylphenol (C5-9) excluding Added as a voluntary standard
2		Benzophenone Added as a voluntary standard
3		Chromium and its Compounds excluding hexavalent chromium Added as a voluntary standard
4		2,4-Dichlorophenol Added as a voluntary standard
5		Ethylbenzene Added as a voluntary standard
6		Isocyanate Added as a voluntary standard
7		Octachlorostyrene Added as a voluntary standard
8		Phosphorus flame retardant excluding red phosphorus Transition to managed substances
9		Antimony and its compounds excluding antimony trioxide(Sb2O3) Transition to managed substances

List of main reference laws

No.	Substances	Main reference laws etc.
A1. RoHS-related Presence of banned substances in the product		
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
A2. RoHS-related Presence of banned substances depending on application		
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
B1. Others Presence of banned substances in the product		
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-dimethylethyl)	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
B2. Others Presence of banned substances depending on application		
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	Diocetyl tin (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	Red phosphorus	<Sharp own forbiddance>
B3. Others Ozone-depleting substances contained in the product or used in manufacturing		
	Ozone-depleting substances	Montreal Protocol, USA Chlorofluorocarbon tax

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

C. For Device Business Units and Company

Presence of banned substances in the product

1	Substances subject to Chemical Substances Control Law	Chemical Substances Control Law : Class I , Class II , Monitoring Substances
2	Substances subject to TSCA	Toxic Substances Control Act: TSCA(US) Banned or restricted substances (Section 6)
3	Substances subject to POPs	EU POPs Regulation (EC) 850/2004 ANNEX I
4	Musk xylene	EU REACH regulation Annex XVII
5	Nonylphenol compounds and its ethoxylate	(EU REACH regulation)
6	Anthracenes	(EU REACH regulation) / EU REACH regulation Annex XIV
7	Chlorinated paraffins: C23, 43% chlorine	< Ban decided by Device Group >
8	Medium Chain Chlorinated Paraffins (MCCP)[Group](14-19 carbons)	< Ban decided by Device Group >
9	1,3-Dichloropropene	< Ban decided by Device Group >
10	p-Dimethylaminoazobenzene	< Ban decided by Device Group >
11	Hydrogen chloride	< Ban decided by Device Group >
12	N,N'-Ethylenebisdithiocarbamate manganese (Maneb)	< Ban decided by Device Group >
13	1-Naphthylamine	< Ban decided by Device Group >

Presence of banned substances depending on application

1	REACH regulation Restricted substances listed in Appendix	EU REACH regulation Annex XVII
2	Antimony trioxide	< Ban depending on application decided by Device Group >
3	Polyvinyl chloride ※	< Ban depending on application decided by Device Group >
4	Natural rubber ※	< Ban depending on application decided by Device Group >
5	Tetrachlorophthalic anhydride ※	< Ban depending on application decided by Device Group >
6	Red phosphorus ※	< Ban depending on application decided by Device Group >
7	Halogen substances (Chlorine, Bromine)	< Ban depending on application decided by Device Group >

Presence of managed substances

1	Alkylphenol (C5-9) excluding nonylphenol	< Managed substance decided by Device Group >
2	Benzophenone	< Managed substance decided by Device Group >
3	Chromium and its Compounds excluding hexavalent	< Managed substance decided by Device Group >
4	2,4-Dichlorophenol	< Managed substance decided by Device Group >
5	Ethylbenzene	< Managed substance decided by Device Group >
6	Isocyanate	< Managed substance decided by Device Group >
7	Octachlorostyrene	< Managed substance decided by Device Group >
8	Phosphorus flame retardant excluding red phosphorus	< Managed substance decided by Device Group >
9	Antimony and its compounds excluding antimony trioxide(Sb2O3)	< Managed substance decided by Device Group >