

[There is no need to attach this sheet]

**Notes for inputting "Report on Chemical Substances Contained in the Product (ver.13.0)"**

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
Analysis	Analysis Data List for RoHS * Please submit this sheet when submitting to the Mobile Communication Business Unit (Hiroshima). In addition, it is unnecessary to submit Test Reports of analysis agency etc. If we request, please submit a test report immediately.

**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.13.0)

(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 chemical Substances

### 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 >

\*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.

**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)	All of the following (1) to (4) are satisfied. (1) In the case of plastics, the content is 300ppm or less. (2) In the case of batteries, comply with the EU Battery Directive (2006/66/EC, 2013/56/EU). (3) In case of use in toy/products for children, not correspond to the banned criteria of both (1) and (2) in 2 of A2-Appendix. (4) In the cases other than the above (1) to (3), the content is 1000ppm or less.	< 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 >
4	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP) *3)	Total content of 4 substances (DEHP, DBP, BBP, DIBP) is 1000ppm or less.	< 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.

\*3) The four types of phthalates (DEHP, BBP, DBP, DIBP) are mainly used as plasticizers for soft resins, and have the property of being transferred from other products by contact (migration). Since there is a possibility of transfer from packaging to parts and materials, please report the substances containing in the packaging with the same standard (threshold).

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 >
15	Pentachlorothiophenol (PCTP)	Content is 1wt% 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.**

### 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.	Total content of 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/mixture is 10ppm or less, Content of sub-product/article etc. except substance/mixture 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 >
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 >

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No.	Substances	Check point (Criteria) *1)	Result
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 PFOA-related substances *3)	The following (1) and (2) are to be satisfied in the Mixture or Article. (1) PFOA (including its salt): Content is less than 25ppb. (2) Combination of one or multiple PFOA-related substances: Total content is less than 1000ppb (1ppm).	< 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 (TCCP)	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 >
22	Isopropylphenyl phosphate (PIP(3:1))	Not intentionally added.	< Applicable / Not Applicable >
23	Hexachlorobutadiene (HCBD)	Not intentionally added.	< Applicable / Not Applicable >
24	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	Not intentionally added.	< Applicable / Not Applicable >
25	4,4'-isopropylidenediphenol (Bisphenol A)	Content is less than 0.02wt%.	< Applicable / Not Applicable >
26	4,4'-sulfonyldiphenol (Bisphenol S)	Content is less than 0.02wt%.	< Applicable / Not Applicable >
27	Halogenated flame retardant *5)	Total content of halogen elements attributed to the halogenated flame retardants in the homogeneous material is 0.1wt% or less	< 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).

\*5) "Halogenated flame retardant" means a flame retardant that contains any halogen.

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)	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, Bromomethane, 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 marked in the result column based on the criteria in accordance with "The SHARP's policy of delivery dates to SHARP and EU RoHS exemption's due date".

**The SHARP's policy of delivery dates to SHARP and EU RoHS exemption's due date.**

1) In principle, SHARP set up delivery prohibition date to SHARP as "six month" before the due date of EU RoHS exemption.  
Example) If the deadline of RoHS Exemption is "21 July 2021," the delivery prohibition date to SHARP is "21 Jan. 2021".

2) If the deadline of RoHS Exemption is changed after issuance of this report, in principle, the delivery prohibition date to SHARP will be six months before the changed deadline.

3) It is based on information on the exemption deadline of the EU RoHS Directive at the time of issuance of this report (Oct. 2021).

Substances	No.	Check point (Criteria)	RoHS Exemption *1)	Result	
<b>1 Cadmium and its compound</b>					
Banned	(1)	Used in every application other than the following (2)-(5).	-	-	
	Usable	(2)	Used for electrical contacts [Under deliberation for exemption renewal in EU]*2	8(b)-I	-
		(a)	Circuit breakers		
		(b)	Thermal sensing controls		
		(c)	Thermal motor protectors (excluding hermetic thermal motor protectors)		
		(d)	AC switches rated at 6A and more at 250V AC and more, or 12A and more at 125V AC and more		
		(e)	DC switches rated at 20A and more at 18V DC and more		
	(f)	Switches for use at voltage supply frequency $\geq$ 200 Hz			
	(3)	Used in striking optical filter glass types, excluding applications falling under point 39 of EU RoHS directive annex III [Under deliberation for exemption renewal in EU]*2	13(b)-(II)		
	(4)	Used in white glass used for an optical purpose [Under deliberation for exemption renewal in EU]*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. :	-		
<b>2 Lead and its compound</b>					
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)-(13).	-		
Usable	(4)	Used in high-melting point solder (lead-based alloys containing 85 % by weight or more lead) [Under deliberation for exemption renewal in EU]*2	7(a)		
	(5)	Used in electrical and electronic components in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound [Under deliberation for exemption renewal in EU]*2	7(c)-I		
	(6)	Used less than 0.2% by weight in glass of fluorescent tubes [Under deliberation for exemption renewal in EU]*2	5(b)		
	(7)	Contained as an alloying element			
		(a)	Used less than 0.35% by weight in steel alloy for machining purposes [Under deliberation for exemption renewal in EU]*2	6(a)-I	
		(b)	Used less than 0.4% by weight in aluminium alloy for machining purposes [Under deliberation for exemption renewal in EU]*2	6(b)-II	
	(c)	Used less than 4% by weight in copper alloy [Under deliberation for exemption renewal in EU]*2	6(c)		
	(8)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies [Under deliberation for exemption renewal in EU]*2		15(a)	-
		(a)	A semiconductor technology node of 90 nm or larger		
		(b)	A single die of 300 mm <sup>2</sup> or larger in any semiconductor technology node		
		(c)	Stacked die packages with die of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger		
	(9)	Used in white glass used for an optical purpose [Under deliberation for exemption renewal in EU]*2	13(a)		
	(10)	Used in ion coloured optical filter glass types [Under deliberation for exemption renewal in EU]*2	13(b)-(I)		
(11)	Used in glazes used for reflectance standards [Under deliberation for exemption renewal in EU]*2	13(b)-(III)			
(12)	Used in dielectric ceramic used in a capacitor with rated voltage of 125V AC or 250V DC or larger [Under deliberation for exemption renewal in EU]*2	7(c)-II			
(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. :	-		

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3 Mercury and its compound					
Usable	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 ( $\leq 500$ mm): under 3.5mg [Under deliberation for exemption renewal in EU]*2	3(a)	
			(b) Medium length ( $> 500$ mm and $\leq 1500$ mm): under 5mg [Under deliberation for exemption renewal in EU]*2	3(b)	
		(c) Long length ( $> 1500$ mm): under 13mg [Under deliberation for exemption renewal in EU]*2	3(c)		
	(3)	Used in metal halide lamps (MH) [Under deliberation for exemption renewal in EU]*2	4(e)		
	(4)	Used in other discharge lamps for special purposes specified in of EU RoHS directive Annex III 4(f) (2011/65/EU) [Under deliberation for exemption renewal in EU]*2	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. :	-			
4 Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP)					
Usable	Banned	(1)	Used other than the following (2).	-	
	Usable	(2)	In the case of parts/materials used in the product that is both "regulated EU RoHS Directive" and "other than Children's toy or child care article", content of DEHP, DBP, BBP and DIBP is 1000ppm or less respectively.	-	

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

\*2) An application for extension of exemption was accepted in the EU, and it is under deliberation at the time of issuance of this report (Sept. 2020).

This exemption is valid during deliberation. When the deadline is decided, delivery prohibition date to SHARP will be six months before the deadline.

**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).	
<b>Usable</b>	(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 discomposed.	
<b>Usable</b>	(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.	
<b>Usable</b>	(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 that are children's toy or child care article that can be placed in a child's mouth (over 1000ppm in total).	
<b>Usable</b>	(2)	Used under conditions that do not correspond to (1) above.	
<b>5 Radioactive substances</b>			
<b>Banned</b>	(1)	Used in the other than the following (2)-(3).	
<b>Usable</b>	(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).	
<b>Usable</b>	(2)	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).	
<b>Usable</b>	(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.)	
<b>Usable</b>	(3)	Used in the other than the above (1)-(2).	
<b>9 Perchlorates</b>			
<b>Usable</b>	(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.	
<b>Usable</b>	(2)	Used in the other than the above (1).	
<b>11 Arsenic and its compound</b>			
<b>Banned</b>	(1)	Using Diarsenic Pentoxide	
	(2)	Used in the other than the following (3)-(4).	
<b>Usable</b>	(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	

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Substances	No.	Check point (Criteria)	Result
<b>12 Boric acid</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
	<b>Usable</b>	(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).	
	<b>Usable</b>	(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).	
	<b>Usable</b>	(2) Used in the other than the above (1).	
<b>15 Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances</b>			
<b>Banned</b>	(1)	Used in the other than the following (2)-(4).	
	<b>Usable</b>	(2) Used in photo-lithography processes for semiconductors or in etching processes for compound semiconductors	
		(3) Used in photo coating used in printing plates, film, and documents.	
		(4) Using exemptions listed in EU POPs regulation Annex I Part A other than above and having permission from adoption decision. (Required fields) Applied exemption ( )	
<b>16 Chlorinated flame retardants</b>			
<b>Banned</b>	(1)	Used in the other than the following (2).	
	<b>Usable</b>	(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 fiber.	
	(2)	Used in the other than the following (3)-(6).	
<b>Usable</b>	(3)	Used in motor vehicles or replacement parts or replacement equipment for motor vehicles.	
	(4)	Used in commercial or residential building insulation or wiring that otherwise complies with the Construction Codes Supplement, set forth in Title 12 of the District of Columbia Municipal Regulations	
	(5)	Used in desktop and laptop computers, audio and video equipment, calculators, wireless telephones, game consoles, handheld devices incorporating a screen that are used to access interactive software and their associated peripherals, and cables, adaptors, and other similar connecting devices; or.	
	(6)	Used in storage media, such as compact discs, for interactive software, such as computer games.	
<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 fiber.	
	<b>Usable</b>	(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 fiber.	
	(2)	Used in the other than the following (3)-(6).	
<b>Usable</b>	(3)	Used in motor vehicles or replacement parts or replacement equipment for motor vehicles.	
	(4)	Used in commercial or residential building insulation or wiring that otherwise complies with the Construction Codes Supplement, set forth in Title 12 of the District of Columbia Municipal Regulations	
	(5)	Used in desktop and laptop computers, audio and video equipment, calculators, wireless telephones, game consoles, handheld devices incorporating a screen that are used to access interactive software and their associated peripherals, and cables, adaptors, and other similar connecting devices; or.	
	(6)	Used in storage media, such as compact discs, for interactive software, such as computer games.	

< Continued on the next page.>



< Continued from the previous page.>

20 Polycyclic aromatic hydrocarbons (PAHs)			
<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).	
21 Red phosphorus			
<b>Banned</b>	(1)	Used in plastic or rubber.	
Usable	(2)	Used in the other than the above (1).	
	(3)	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 ( )	
22 Isopropylphenyl phosphate (PIP(3:1))			
<b>Banned</b>	(1)	Used in the other than the following (2)-(5).	
Usable	(2)	Used in adhesives or sealants and a permission from the adoption decision department in Sharp was obtained. [Prohibited after 6 January 2024] /	
	(3)	Used in lubricants or greases.	
	(4)	Used in products or articles made of plastic recycled from products or articles containing PIP (3:1), where no new PIP (3:1) was added during the production of the products or articles made of recycled plastic.	
	(5)	Using exemptions listed in USA TSCA SECTION 6 PBT-chemicals other than above and having permission from adoption decision. (Required fields) Applied exemption ( )	
23 Hexachlorobutadiene (HCBD)			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	Unintentional production of HCBD as a byproduct in the production of chlorinated solvents	
24 2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)			
<b>Banned</b>	(1)	Used in the other than the following (2).	
Usable	(2)	Used in articles	
25 4,4'-isopropylidenediphenol (Bisphenol A)			
<b>Banned</b>	(1)	Used in thermal paper, containing equal to or greater than 0.02wt%.	
Usable	(2)	Used in the other than the above (1).	
26 4,4'-sulfonyldiphenol (Bisphenol S)			
<b>Banned</b>	(1)	Used under conditions that do not correspond to following (2)-(3).	
Usable	(2)	Used for other than thermal paper.	
	(3)	(Used in thermal paper, containing equal to or greater than 0.02wt%) and used for products with a limited destination and having permission from adoption decision.	
27 Halogenated flame retardant			
<b>Banned</b>	(1)	Used in enclosure and stand of electronic displays including televisions, monitors and digital signage displays with a screen area over 100cm <sup>2</sup> , Total content of halogen elements attributed to the halogenated flame retardants in the homogeneous material is over 0.1wt%.	
Usable	(2)	Used in the other than the above (1).	

# Analysis Data List for RoHS

Company name				Sign
Department/ Position				
Responsible person				

Note 1: Enter "-" in spaces where entry is unnecessary.  
 Note 2: Mandatory entry items differ depending on the analysis method, so please be careful.  
 - Mandatory entry items for the X-ray fluorescence analysis method: (1) Measurement results (ppm), (2) 3σ value (ppm), (3) Determination method, (4) Measurement time (sec)  
 - Mandatory entry item for other analysis methods: (5) Precision measurement results (ppm)  
 Note 3: If a part or material has clearly been made from the same component material, it shall be possible to substitute with analysis data for representative parts/materials of each manufacturer, even if the parts code is different. In that case, enter the no. of the substitute parts/material in the remark column.  
 Note4: Enter "Exemption No." based on the European RoHS Directive for (2011/65 / EU) exemption. It has been described to "RoHS Exemption" column on A2-Appendix of the report.  
 Note5: Enter "RoHS compliant (Y / N)" with a compliant to the European RoHS Directive of the reporting date.

## Analysis for 10 substances of RoHS

Sharp Part code	
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No	Part name or Manufacturers Part code	Analyzed section (Unit of homogeneous material)	Analysis agency/ Responsible person for measurement	Analysis method/ Measurement date	Pre-treatment method	Data item	10 substances of RoHS								Exemption No.	RoHS compliant (Y/N)	Remark				
							Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE	DIBP	DEHP				DBP	BBP		
1						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															
2						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															
3						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															
4						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															
5						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															
6						(1) Measurement results (ppm)															
						(2) 3σ value (ppm)															
						(3) Determination method															
						(4) Measurement time (sec)															
						(5) Precision measurement results (ppm)															

<Reference only> [There is no need to attach this sheet]

**Check Point**

**Analysis Data List for RoHS**

Company name				Sign
Department/ Position				
Responsible person				

•Make sure that you have entered.

Note 1: Enter "\*" in spaces where entry is unnecessary.  
 Note 2: Mandatory entry items differ depending on the analysis method, so please be careful.  
 - Mandatory entry items for the X-ray fluorescence analysis method: (1) Measurement results (ppm), (2) 3σ value (ppm), (3) Determination method, (4) Measurement time (sec)  
 - Mandatory entry item for other analysis methods: (5) Precision measurement results (ppm)  
 Note 3: If a part or material has clearly been made from the same component material, it shall be possible to substitute with analysis data for representative parts/materials of each manufacturer, even if the parts code is different. In that case, enter the no. of the substitute parts/material in the remark column.  
 Note4: Enter "Exemption No." based on the European RoHS Directive for (2011/65 / EU) exemption. It has been described to "RoHS Exemption" column on A2-Appendix of the report.  
 Note5: Enter "RoHS compliant (Y / N)" with a compliant to the European RoHS Directive of the reporting date.

**Analysis for 10 substances of RoHS**

Sharp Part code		10 substances of RoHS														Exemption No.	RoHS compliant (Y/N)	Remark	
No	Part name or Manufacturers Part code	Analyzed section (Unit of homogeneous material)	Analysis agency/ Responsible person for measurement	Analysis method/ Measurement date	Pre-treatment method	Data item	Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE	DIBP	DEHP	DBP				BBP
1						(1) Measurement results (ppm) (2) 3σ value (ppm) (3) Determination method (4) Measurement time (sec)													

•Make sure that you have entered.

•Enter the data for each portion consisting of homogeneous material.  
 •In case of plated section, analyze base material and plating separately.

•Make sure that you have entered.

•Enter when you use the precision analysis method.

•(1)–(4): Enter when you use the the X-ray fluorescence analysis method.  
 •When the sum of (1) and (2) is over the reference value, reanalyze with precision analysis method  
 •(5): Enter when you use the precision analysis method. Make sure the analysis result is not exceeding the criterion value.

•Make sure that it is same as "A2-Appendix" of the report.

•Make sure that "RoHS compliant" is YES.

•Refer to "Sharp's RoHS analysis method guideline[Ver.3.0]" for the details of Analysis method of Lead, Mercury, Cadmium, Hexavalent chromium, PBB , PBDE and Phthalate(DIBP, DEHP, DBP and BBP)  
[http://www.sharp.co.jp/corporate/eco/supplier/g\\_procure/pdf/analysis\\_e.pdf](http://www.sharp.co.jp/corporate/eco/supplier/g_procure/pdf/analysis_e.pdf)

Revision point from ver.12.0

List of surveyed substances

No.	Ver.12.0	Ver.13.0	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)	<-	
<b>A2.RoHS-related Presence of banned substances depending on application</b>			
1	Cadmium and its compound	<-	
2	Lead and its compound	<-	EU RoHS directive exemption "7(c)-IV" deleted due to expiration.
3	Mercury and its compound	<-	
4	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP)	<-	
<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)	<-	
10	Cobalt dichloride	<-	
11	Dimethyl fumarate	<-	
12	Refractory Ceramic Fibers, Aluminosilicate	<-	
13	Refractory Ceramic Fibers, Zirconia Aluminosilicate	<-	
14	Dibutyltin (DBT) compounds	<-	
15	-	Pentachlorothiophenol (PCTP)	Newly added
<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)	<-	Some exemptions of EU POPs regulation deleted due to expiration.
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	<-	
18	Tris(2-chloro-1-methylethyl) phosphate (TCPP)	<-	
19	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<-	
20	Polycyclic aromatic hydrocarbons (PAHs)	<-	
21	Red phosphorus	<-	
22	-	Isopropylphenyl phosphate (PIP(3:1))	Newly added
23	-	Hexachlorobutadiene (HCBd)	Newly added
24	-	2,4,6-tris(tert-butyl)phenol (2,4,6-	Newly added
25	-	4,4'-isopropylidenediphenol (Bisphenol A)	Newly added
26	-	4,4'-sulfonyldiphenol (Bisphenol S)	Newly added
27	-	Halogenated flame retardant *5)	Newly added
<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
2	Polybrominated biphenyls (PBBs)	EU RoHS directive, EU REACH regulation Annex
3	Polybrominated diphenyl ethers (PBDEs)	Japan CSCL, EU RoHS directive, EU REACH regulation Annex XVII, EU POPs regulation Annex I, USA TSCA
<b>A2. RoHS-related Presence of banned substances depending on application</b>		
1	Cadmium and its compound	EU RoHS directive, EU REACH regulation Annex
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
4	Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP), Diisobutyl phthalate (DIBP)	EU RoHS directive(EU COMMISSION DELEGATED DIRECTIVE 2015/863), EU REACH regulation Annex XVII, USA CPSIA
<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
15	Pentachlorothiophenol (PCTP)	USA TSCA
<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	Diocetyl tin (DOT) compounds	EU REACH regulation Annex XVII
15	Perfluorooctanoic acid (PFOA) and its salts and PFOA-related substances	EU POPs regulation
16	Chlorinated flame retardants	<Sharp own forbiddance>
17	Tris (2-chloroethyl) phosphate (TCEP)	USA VT Act85, USA DC.Law 21-108/2016, (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, USA DC.Law 21-108/2016
20	Polycyclic aromatic hydrocarbons (PAHs)	EU REACH regulation Annex XVII
21	Red phosphorus	<Sharp own forbiddance>
22	Isopropylphenyl phosphate (PIP(3:1))	USA TSCA
23	Hexachlorobutadiene (HCBD)	USA TSCA
24	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	USA TSCA
25	4,4'-isopropylidenediphenol (Bisphenol A)	EU REACH regulation Annex XVII, Swiss Chemical Risk Reduction Ordinance, US CT Public Act No.11-222
26	4,4'-sulfonyldiphenol (Bisphenol S)	Swiss Chemical Risk Reduction Ordinance
27	Halogenated flame retardant *5)	EU 2019/2021 (ecodesign requirements for electronic displays)
<b>B3. Others Ozone-depleting substances contained in the product or used in manufacturing</b>		
1	Ozone-depleting substances	Montreal Protocol, USA Chlorofluorocarbon tax

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