

RoHS SHARP RoHS

DECLARATION OF COMPLIANCE

WE, SHARP CORPORATION

Declare that the following product(s):

Type of Equipment: LCD MONITORS

Model Number(s): PN-L401C

Comply with the following Directive and related EU State Laws:

Council Directive: 2011/65/EU of 8 June 2011

On the restriction of the use of certain hazardous substances
in electrical and electronic equipment (recast RoHS)


Applied Harmonized Standards:

EN62321:2009

Electrotechnical products - Determination of levels of six regulated
substances (lead, mercury, cadmium, hexavalent chromium,
polybrominated biphenyls, polybrominated diphenyl ethers)

EN 50581:2012

Technical documentation for the assessment of electrical and electronic
products with respect to the restriction of hazardous substances

Signature: 

Date: Jan, 11, 2017

Full Name: Kenji Tanaka

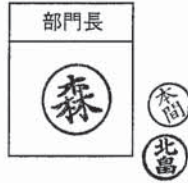
Division(Company): Visual Solutions
Business Unit

Position: General Manager, Head of Unit

オフィスS事業部



OS)
CS推進部



RoHS完了報告書

◇下記モデルのRoHS対応が完了しましたので報告致します。

※ 対象モデルの部品リストを添付のこと。

<社外製品名> <社内製品名>

1. PN-L401C

A3PNL401CU

タッチディスプレイ

アメリカ・カナダ

メキシコ

コロンビア、ベネズエラ、ペルー、エクアドル

機種名 : A3PNL401CU

No	部品コード	PN名称	メーカー	Pb	Hg	Cd	Cr	PBB	PBDE	DIBP	DBP/BBP/BBP*	赤リン	除外理由
1	A3PNL401CU	IWB PN-L401C(JADE-40)NORTH AMERICA(株)YVY	Hong Fu Jin Precision Industry (Wuhan) CO.,LTD	>1000	<1000	<100	<1000	<1000	<1000	<1000	<1000	>1000	「高融点半田に使用されている」のため除外規定対象 「電子部品のガラスの中の鉛」のため除外規定対象 「合金成分に含有」のため除外規定対象

制作日期 / Date (yyyy/mm/dd) 2016/12/22
 公司名称 / Company Name Hong Fu Jin Precision Industry (Wuhan) CO.LTD
 部门名称 / Department (武汉)DTSA/MPU/L10/ASM

含有化学物质报告书 (ver. 9.0) (原名: 环境负荷物质含有情况报告书) /
Report on Chemical Substances Contained in the Product (ver.9.0)
 (Former name: Report on Environmental Impact Substances Contained in the Product)

含有化学物质, 保证符合以下内容 /
 We report the following verified results on the chemical substances.

调查确认产品 / Information on surveyed product

1) 夏普零件编号 / Sharp Part Code	A3PNL401CU
2) 产品名称 / Product Name	Information Display (Touch Display)
3) 生产商编号 / Manufacturer's Model Code	PN-L401C
4) 产品质量 [g] / Product Weight [g]	17.5kg

A. RoHS相关 / RoHS-related

**A1. 针对全面禁止使用的化学物质在产品中的含有状况 /
 Presence of banned substances in the product**

< 判定基准满足 / Meet criteria: "Applicable"、未满足 / Do not meet criteria: "Not Applicable" >

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
1	六价铬化合物 / Hexavalent chromium compound *2)	含有量在1000ppm以下。但在接触皮肤的皮革产品/零部件中, 每单位皮革的合计干燥重量在3ppm以下。 / 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
2	聚溴联苯类 (PBB类) / Polybrominated biphenyls (PBBs)	含有量在1000ppm以下 / Content is 1000ppm or less.	Applicable
3	溴联苯醚类 (PBDE类) / Polybrominated diphenyl ethers (PBDEs)	含有量在1000ppm以下 / Content is 1000ppm or less.	Applicable
4	邻苯二甲酸二异丁酯 (DIBP) / Diisobutyl phthalate (DIBP)	含有量在1000ppm以下 / Content is 1000ppm or less.	Applicable
5	邻苯二甲酸(2-乙基己基酯) (DEHP)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯 (BBP) / Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Bis(butylbenzyl) phthalate (BBP)	含有量均在1000ppm以下。 使用于玩具用途产品的零部件/原材料时, 3种物质 (DEHP、DBP、BBP) 的合计含有量在1000ppm以下。 / 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

*1) 含有率的计算单位如无特别记载时为均质材料。

Unit for calculating content rate is homogeneous material if not otherwise specified.

(注) 上述确认结果为「Not Applicable」的时候, 原则上夏普不予采用。 /

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

**A2. 附带条件禁止使用的化学物质在产品中的含有状况 /
 Presence of banned substances depending on application**

< 判定基准满足 / Meet criteria: "Applicable"、未满足 / Do not meet criteria: "Not Applicable" >

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
1	镉及其化合物 / Cadmium and its compound *2)	含有量在100ppm以下。另外, 关于电池须符合EU电池指令 (2006/66/EC、2013/56/EU) / Content is 100ppm or less. Regarding batteries, complying with the EU Battery Directive (2006/66/EC, 2013/56/EU).	Applicable
2	铅及其化合物 / Lead and its compound *2)	塑料类含有量在300ppm以下, 其他含有量在1000ppm以下。另外, 关于电池须符合EU电池指令 (2006/66/EC、2013/56/EU)。但是, 玩具和儿童用品, 请参照A2-别表回答 / 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.	Not Applicable
3	汞及其化合物 / Mercury and its compound *2)	含有量在1000ppm以下。另外, 关于电池须符合EU电池指令 (2006/66/EC、2013/56/EU) / Content is 1000ppm or less. Regarding batteries, complying with the EU Battery Directive (2006/66/EC, 2013/56/EU).	Applicable

*1) 含有率的计算单位如无特别记载时为均质材料。

Unit for calculating content rate is homogeneous material if not otherwise specified.

*2) 根据EU包装材料指令等、关于包装材料用零件、包装材料, 镉、铅、汞、六价铬分别在部材、油墨、涂料中的合计含有量在100ppm以下 /

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.

判定标准的确认结果为[Not Applicable]情形时, A2-附表中描述并添加了可否使用的判定 /

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

B. 其它 / Others

B1. 针对全面禁止使用的化学物质在产品中的含有状况 / Presence of banned substances in the product

< 判定基准满足 / Meet criteria: "Applicable", 未满足 / Do not meet criteria: "Not Applicable" >

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
1	三丁基锡=环氧 (TBTO) / Tributyl Tin Oxide (TBTO)	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
2	三取代有机锡化合物 / Tri-substituted organostannic compounds	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
3	多氯联苯类 (PCB类)、及特定的替代物质 / Polychlorinated biphenyls (PCBs) and specific substitutes	非特意添加 / Not intentionally added.	Applicable
4	多氯化钠 / Polychlorinated naphthalenes	非特意添加 (氯素数1~8为对象) / Not intentionally added. (Chlorine atom 1-8 are subject to the regulation.)	Applicable
5	短链型氯石蜡 / Short chain chlorinated paraffin	非特意添加 (仅以C:10~13为对象) / Not intentionally added. (Only C:10-13 are subject to the regulation.)	Applicable
6	石棉类 / Asbestos	非特意添加 / Not intentionally added.	Applicable
7	多氯三联苯类 (PCT类) / Polychlorinated Terphenyls (PCTs)	非特意添加, 且含量在50ppm以下 / Content is 50ppm or less. Not intentionally added.	Applicable
8	2-(2H-1,2,3-苯并三氮唑-2-基)-4,6-二叔丁基苯酚 / Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	非特意添加 / Not intentionally added.	Applicable
9	六溴环十二烷 (HBCDD) / Hexabromocyclododecane (HBCDD)	非特意添加, 且含量在100ppm以下 / Content is 100ppm or less. Not intentionally added.	Applicable
10	氯化钴 / Cobalt dichloride	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
11	富马酸二甲酯 / Dimethyl fumarate	非特意添加, 且含量在0.1ppm以下 / Content is 0.1ppm or less. Not intentionally added.	Applicable
12	铝硅酸盐, 耐火陶瓷纤维 / Refractory Ceramic Fibers, Aluminosilicate	非特意添加 / Not intentionally added.	Applicable
13	氧化锆硅酸铝, 耐火陶瓷纤维 / Refractory Ceramic Fibers, Zirconia Aluminosilicate	非特意添加 / Not intentionally added.	Applicable
14	二丁基锡 (DBT) 化合物 / Dibutyltin (DBT) compounds	材料中的锡的含有量在1000ppm以下 / Content is 1000ppm or less by weight of tin in a material.	Applicable

*1) 含有率的计算单位如无特别记载时为均质材料。

Unit for calculating content rate is homogeneous material if not otherwise specified.

(注) 上述确认结果为「Not Applicable」的时候, 原则上夏普不予采用。 /

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

B2. 附带条件禁止使用的化学物质在产品中的含有状况 / Presence of banned substances depending on application

< 判定基准满足 / Meet criteria: "Applicable", 未满足 / Do not meet criteria: "Not Applicable" >

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
1	铍及其化合物 / Beryllium and its compound	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
2	偶氮染料·颜料 / Azo colorants	非特意添加 / Not intentionally added.	Not Applicable
3	聚氯乙烯及其共聚物 / Polyvinyl Chloride and its copolymer	非特意添加 / Not intentionally added.	Not Applicable
4	RoHS相关的4种邻苯二甲酸酯物质以外的邻苯二甲酸酯类 / Phthalates other than the four4 RoHS-related Phthalates.	以下除外的邻苯二甲酸酯类的含有量在1000ppm以下。 邻苯二甲酸(2-乙基己基酯): DEHP、邻苯二甲酸二丁酯: DBP、邻苯二甲酸丁苄酯: BBP、邻苯二甲酸二异丁酯: DIBP 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.	Not Applicable
5	放射性物质 / Radioactive substances	非特意添加 / Not intentionally added.	Applicable
6	全氟辛酸磺酸盐 (PFOS) / Perfluorooctane sulfonate (PFOSs) *2)	非有意添加, 且物质, 调剂剂含有量在50ppm以下, 物质、调剂剂以外的半成品、成形品等含有量在1000ppm以下, 被覆材料含有量在1µg/m2以下 / 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.	Not Applicable
7	氟系温室效应气体 (HFC/PFC/SF6) / Fluorinated greenhouse gases (HFC, PFC, SF6)	非特意添加 / Not intentionally added.	Applicable
8	甲醛 / Formaldehyde	木制零件: 大气中浓度在0.1ppm以下 (腔室法), 塑料/纤维等: 含有量在75ppm以下 / Wood component: atmospheric concentration is 0.1ppm or less (by the chamber method). Plastics/fibers: content is 75ppm or less.	Applicable
9	过氯酸盐 / Perchlorates	非特意添加 (只有电池为调查对象。电池以外无需回答) / Not intentionally added. (Only battery is targeted by this survey. No response is necessary except battery)	Not Applicable

< 下一页 / Continued on the next page.>

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
10	镍及其化合物 / Nickel and its compound	非特意添加 / Not intentionally added.	Not Applicable
11	砷及其化合物 / Arsenic and its compound	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Not Applicable
12	硼酸 / Boric acid	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Not Applicable
13	无水四硼酸, 七水合四硼酸钠 / Disodium tetraborate, anhydrous, Tetraboron disodium heptahydrate	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
14	二辛基锡 (DOT) 化合物 / Dioctyltin (DOT) compounds	材料中的锡的含量在1000ppm以下 / Content is 1000ppm or less by weight of tin in a material.	Applicable
15	全氟辛酸 (PFOA) 及其盐类和酯类 / Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA *3)	非特意添加, 且包覆材料在1µg/m2以下, 此外含有均在1000ppm以下 / Not intentionally added, and content of coating agent is less than 1µg/m2 and content of the others is 1000ppm or less.	Applicable
16	氯化系阻燃剂 / Chlorinated flame retardants	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
17	磷酸三(2-氯乙基)酯 (TCEP) / Tris(2-chloroethyl) phosphate (TCEP)	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
18	磷酸三(1-甲基-2-氯乙基)酯 (TCPP) / Tris(2-chloro-1-methylethyl) phosphate (TCPP)	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
19	磷酸三(1,3-二氯-2-丙基)酯 (TDCPP) / Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	非特意添加, 且含量在1000ppm以下 / Content is 1000ppm or less. Not intentionally added.	Applicable
20	多环芳香族碳氢化合物 (PAH) / Polycyclic aromatic hydrocarbons (PAHs)	对象PAH *4) 含量均不超过1ppm / Content is less than 1ppm regarding target PAHs *4).	Not Applicable
21	苯乙烯和双异丁烯和二苯胺的反应物 (BNST) / Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	非特意添加 / Not intentionally added.	Applicable
22	红磷 / Red phosphorus	非有意添加, 且含量不超过1000ppm / Content is 1000ppm or less. Not intentionally added.	Not Applicable

*1) 含有率的计算单位如无特别记载时为均质材料。

Unit for calculating content rate is homogeneous material if not otherwise specified.

*2) 关于“全氟辛酸磺酸及其盐”, 范围包含以下CAS No.为对象。(1763-23-1, 307-35-7, 29457-72-5, 2795-39-3) /

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) 以下CAS No.物质的总含量。(335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5) /

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) 范围包括以下CAS No.为对象。(50-32-8, 192-97-2, 56-55-3, 218-01-9, 205-99-2, 205-82-3, 207-08-9, 53-70-3) /

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).

判定标准的确认结果为[Not Applicable]情形时, B2-附表中描述并添加了可否使用的判定 /

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

B3. 臭氧层破坏物质的产品中是否含有, 以及在制造工程中是否使用 /

Ozone-depleting substances contained in the product or used in manufacturing

< 判定基准满足 / Meet criteria: "Applicable". 未满足 / Do not meet criteria: "Not Applicable" >

No.	化学物质名称 / Substances	详细内容 (判定标准) / Check point (Criteria) *1)	确认结果 / Result
1	臭氧层破坏物质 / Ozone-depleting substances (蒙特利尔议定书Class I、II为对象) / [regulated by the Montreal Protocol (Class I and II)] *1)	(1) 产品中未含有 / Not contained in part/materials. (2) 产品中使用时电路板 / Using printed wiring boards (PWBs) in the product (3) 清洗工程中不使用 (仅在(2)项确认结果是YES时回答) (即便适用"Not Used"="清洗工程中不使用"时, 关于需要清洗工程的部分, 请输入清洗剂或清洗方法) / 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.) 清洗液: / Rinse solution: Isopropanol&CITRIC ACID&H2SO4 清洗方法: / Rinse method: clean cloth cleaning with isopropanol & Immersion Sunshine&Clearfall immersion	Applicable Yes Not Used

*1) 关于臭氧层破坏物质, CFC, 1,1,1-三氯乙烷, 四氯化碳, 溴甲烷, 溴氯甲烷, 二氯二氟甲烷, HBFC, 和HCFC为对象 /

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

(注) 上述确认结果为[Not Applicable]或[Used]的时候, 夏普不可采用 /

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

制作人 / Writer

负责人 / Responsible Person

公司名称 / Company Name

2016/12/24
请签名, 或盖姓名章

请输入 (填写) 并盖公章

A2-附表 / A2-Appendix

关于「Not Applicable」的项目，第A2项的确认结果，根据下记的判定基准确认结果，该当项目的「确认结果」栏里以（X）表示 /

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.

化学物质名称 / Substances	No.	确认内容 (判定标准) / Check point (Criteria)	RoHS除外 / RoHS Exemption ^{*)}	确认结果 / Result
1 镉及其化合物 / Cadmium and its compound				
禁止使用 / Banned	(1)	用于下述 (2) ~ (4) 以外的情况 Used in every application other than the following (2)-(4).	-	
	可以使用 / Usable	(2) 使用在电气连接点中 / Used for electrical contacts.	8(b)	
		(3) 使用在滤光玻璃上 / Used in filter glass.	13(b)	
		(4) 使用于上述以外的EU指令中规定的豁免用途，须经采用部门的许可。 / Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	-	
		EU RoHS指令 附录No. / EU RoHS directive Annex No.:	-	< AnnexIII / AnnexIV >
		RoHS豁免用途No. / RoHS Exemption No.:	-	
2 铅及其化合物 / Lead and its compound				
禁止使用 / Banned	(1)	使用于12岁以下儿童的产品，每单位外装零部件含铅超过0.01wt%以上 / Used in products for children 12 and under, containing lead exceeding 0.01wt% per armored part.	-	
	(2)	用于玩具的零件、材料中，在涂饰等的表面处理层每单位使用量在0.009%以上 / Used in parts/material used in toys, containing lead above 0.009% per surface treatment layer such as coating.	-	
可以使用 / Usable	(3)	用于下述 (4) ~ (13) 以外的情况 / Used in every application other than the following (4)-(13).	-	
	(4)	使用于高熔点焊锡 (铅为85wt%以上的焊锡) 中 / Used in high-melting point solder (lead-based alloys containing 85 % by weight or more lead).	7(a)	X
	(5)	使用于电子电气零部件的电容器内的绝缘陶瓷以外的玻璃中或陶瓷中 (例如 压电装置)，或者以玻璃或陶瓷为母材的化合物中。 / 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	X
	(6)	使用于荧光管的玻璃 (0.2wt%以下) / Used less than 0.2% by weight in glass of fluorescent tubes.	5(b)	
	(7)	含有作为合金元素 / Contained as an alloying element		
		(a) 钢材中少于0.35wt% / Used less than 0.35% by weight in steel alloy.	6(a)	
		(b) 铝材中少于0.4wt% / Used less than 0.4% by weight in aluminium alloy.	6(b)	
		(c) 铜材中少于4wt% / Used less than 4% by weight in copper alloy.	6(c)	X
	(8)	使用于集成电路倒装片 (flip tip) 中半导体芯片及载体之间形成可靠连接所用焊料中 / Used in solder for connecting semiconductor dies and carriers in flip chip IC packages.	15	
	(9)	用于光学用途的白色玻璃内或滤光玻璃中 / Used in white glass or filter glass used for an optical purpose.	13(a)	
	(10)	用于供暖、空气流通、空调以及冷藏、冷冻、通风 (HVACR) 功能的含制冷剂的压缩机用的轴承外壳与衬套中 / 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)	用于额定电压为AC125V或者DC250V或者更高的电容器中使用的介电陶瓷中 / Used in dielectric ceramic used in a capacitor with rated voltage of 125V AC or 250V DC or larger.	7(c)-II	
	(12)	使用于集成电路或单晶半导体 (单一功能半导体) 部分电容的PZT系绝缘陶瓷材料中 / Used in PTZ-based dielectric ceramic materials in a capacitor part of an IC chip or a discrete semiconductor. (single function semiconductor)	7(c)-IV	
(13)	使用于上述以外的EU指令中规定的豁免用途，须经采用部门的许可。 / Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	-		
		EU RoHS指令 附录No. / EU RoHS directive Annex No.:	-	< AnnexIII / AnnexIV >
		RoHS豁免用途No. / RoHS Exemption No.:	-	
3 汞及其化合物 / Mercury and its compound				
禁止使用 / Banned	(1)	用于下述 (2) ~ (5) 以外的情况 / Used in every application other than the following (2)-(5).	-	
	可以使用 / Usable	(2)	使用于特别目的的冷阴极荧光灯以及外部电极荧光灯 (CCFL或EEFL) (每盏灯) / Used in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes (per lamp):	
		(a) 短型 (500mm以下): 未滿3.5mg / Short length (≤ 500 mm): under 3.5mg	3(a)	
		(b) 中型 (超500mm, 且在1500mm以下): 未滿5mg / Medium length (> 500 mm and ≤ 1500 mm): under 5mg	3(b)	
		(c) 长型 (超1500mm): 未滿13mg / Long length (> 1500 mm): under 13mg	3(c)	
	(3) 用于金属卤化物灯(MH)中 / Used in metal halide lamps (MH).	4(e)		
	(4) 使用于EU RoHS指令 (2011/65/EU) 附录III 4(f)中规定的特殊用途的放电灯。 / Used in other discharge lamps for special purposes specified in of EU RoHS directive Annex III 4(f) (2011/65/EU).	4(f)		
	(5) 使用于上述以外的EU指令中规定的豁免用途，须经采用部门的许可。 / Using exemptions listed in EU RoHS directive other than above and having permission from adoption decision.	-		
		EU RoHS指令 附录No. / EU RoHS directive Annex No.:	-	< AnnexIII / AnnexIV >
		RoHS豁免用途No. / RoHS Exemption No.:	-	

*1)适用于 EU RoHS指令 (2011/65/EU) 以外的号码

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

B2-附表 / B2-Appendix

关于「Not Applicable」的项目，第B2项的确认结果，遵循下记判定基准确认结果，该当项目的「确认结果」栏里以（X）表示 /

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.

化学物质名称 / Substances	No.	确认内容 (判定标准) / Check point (Criteria)	确认结果 / Result
1 铍及其化合物 / Beryllium and its compound			
禁止使用 / Banned	(1)	铍氧化物 / Using Beryllium oxide.	
	(2)	用于下述 (3) 以外的情况 / Used in the other than the following (3).	
可以使用 / Usable	(3)	用在豁免对象零件中 / Used in the exception items. (a) 用于合金 / Alloy (b) 用于陶瓷 / Ceramics (c) 用于玻璃 / Glass (d) 用于半导体 / Semiconductor	
2 偶氮染料·颜料 / Azo colorants			
禁止使用 / Banned	(1)	与人体长期接触为目的设计制作的产品 (例: 电热毯、耳机、皮带等) 的人体接触部分, 在分解时有可能产生超过30ppm致癌胺的物品 / 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.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 (用于不长时间接触人体的部位) / Used in every application other than the above (1). (Used in a part which does not continuously contact with human body)	X
3 聚氯乙烯及其共聚物 / Polyvinyl Chloride and its copolymer			
禁止使用 / Banned	(1)	用于包装材料·零件 (对象为夏普产品抽包用途) 中 / Used in packaging material and packaging part for Sharp product.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	X
4 RoHS相关的4种邻苯二甲酸酯物质以外的邻苯二甲酸酯类 / Phthalates other than the four RoHS related Phthalates.			
禁止使用 / Banned	(1)	面向12岁以下儿童产品中使用的零部件/原材料, 使用了邻苯二甲酸二异壬酯: DINP、邻苯二甲酸二异癸酯: DIDP、邻苯二甲酸二正辛酯: DNOP (合计超过1000ppm) / 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).	
可以使用 / Usable	(2)	使用上述 (1) 以外的物质以及物品 / Used other than the above (1).	X
5 放射性物质 / Radioactive substances			
禁止使用 / Banned	(1)	用于下述 (2) ~ (3) 以外的情况 / Used in the other than the following (2)-(3).	
可以使用 / Usable	(2)	微波炉的磁控管上使用了钍 / Using "Thorium" in the magnetron of a microwave oven.	
	(3)	液晶投影仪的灯泡中使用了氪85 / Using "Krypton 85" in the electric bulb for a LCD projector.	
6 全氟辛烷磺酸盐 (PFOS) / Perfluorooctane sulfonate (PFOSs)			
禁止使用 / Banned	(1)	用于下述 (2) ~ (4) 以外的情况 / Used in the other than the following (2)-(4).	
可以使用 / Usable	(2)	用于感光胶或照片工程中的防反射涂层中 / Used in photoresists and antireflection coating for the photolithography process.	X
	(3)	用于胶片、纸、或者印刷版的照片涂层中 / Used in photo coating used in printing plates, film, and documents.	
	(4)	作为非装饰用的硬质镀铬 (VI) 用的防雾剂, 及电镀用装置中使用的湿润剂使用 / Used in mist suppressants for hard chrome plating, and moistening agent used in equipment for plating.	
7 氟系温室效应气体 (HFC/PFC/SF6) / Fluorinated greenhouse gases (HFC, PFC, SF6)			
禁止使用 / Banned	(1)	用于下述 (2) 以外的情况 / Used in the other than the following (2).	
可以使用 / Usable	(2)	使用于作为制冷/热绝缘的HFC / Use for the refrigerant and/or the thermal insulator (HFC only).	
8 甲醛 / Formaldehyde			
禁止使用 / Banned	(1)	用于木制零件中 / Used in wooden parts.	
	(2)	使用在以持续接触人体为前提制作的产品 (例: 电热毯·耳机·皮带等) 的接触人体的部分 / 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.)	
可以使用 / Usable	(3)	用于上述 (1) ~ (2) 以外的情况 / Used in the other than the above (1)-(2).	
9 过氯酸盐 / Perchlorates			
可以使用 / Usable	(1)	各电池中的重量比在6ppb以上 (在说明书中必须写注意文) / Contained above 6ppb by weight per battery. (Necessary to caution on operation manual)	X
	(2)	各电池中的重量比未达6ppb / Contained less than 6ppb by weight per battery.	X
10 镍及其化合物 / Nickel and its compound			
禁止使用 / Banned	(1)	用于长时间接触皮肤的部分 / Used in parts which continuously contact with human skin for a long time.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	X

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化学物质名称 / Substances	No.	确认内容 (判定标准) / Check point (Criteria)	确认结果 / Result
11 砷及其化合物 / Arsenic and its compound			
禁止使用 / Banned	(1)	使用五氧化二砷 / Using Diarsenic Pentoxide	
可以使用 / Usable	(2)	用于下述 (3) ~ (4) 以外的情况 / Used in the other than the following (3)-(4).	
	(3)	用于液晶投影仪的灯泡的玻璃中 (三氧化二砷) / Used in the lamp of LCD projector. (Diarsenic trioxide)	
	(4)	用于豁免对象零件中 / Used for the exception items.	
	(a)	用于半导体 / Semiconductor	X
	(b)	用于感光剂 / Resist	
	(c)	用于磁性过滤器 / Magnet filter	
	(d)	用于铜箔 / Copper foil	
	(e)	用于电池 / Battery	
12 硼酸 / Boric acid			
禁止使用 / Banned	(1)	用于下述 (2) 以外的情况 / Used in the other than the following (2).	
可以使用 / Usable	(2)	用于如下用途 / Used for applications below;	
	(a)	偏光板 (PVA制) / Polarizers (made of PVA)	X
	(b)	玻璃 / Glass	
	(c)	粘着剂 / Adhesive agent	
13 无水四硼酸钠,七水合四硼酸钠 / Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate			
禁止使用 / Banned	(1)	用于下述 (2) 以外的情况 / Used in the other than the following (2).	
可以使用 / Usable	(2)	用于如下用途 / Used for applications below;	
	(a)	偏光板 (PVA制) / Polarizers (made of PVA)	
	(b)	玻璃 / Glass	
	(c)	粘着剂 / Adhesive agent	
	(d)	纤维 / Fiber	
14 二辛基锡 (DOT) 化合物 / Dioctyltin (DOT) compounds			
禁止使用 / Banned	(1)	双组份室温硬化型铸件配套元件 (RTV-2铸件配套元件) / Used for two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	
15 全氟辛酸 (PFOA) 及其盐类和酯类 / Perfluorooctanoic acid (PFOA) and its salts and esters of PFOA			
禁止使用 / Banned	(1)	用于下述 (2) ~ (4) 以外的情况 / Used in the other than the following (2)-(4).	
可以使用 / Usable	(2)	用于光刻工艺中使用的光致抗蚀剂和抗反射涂层 / Used in photoresists and antireflection coating for the photolithography process.	
	(3)	用于薄膜、纸、或用于印刷版的照片涂层 / Used in photo coating used in printing plates, film, and documents.	
	(4)	用于非装饰用的镀铬 (VI) 电镀用喷雾抑制剂、以及用于电镀装置中的润湿剂 / Used in mist suppressants for hard chrome plating, and moistening agent used in equipment for plating.	
16 氯化系阻燃剂 / Chlorinated flame retardants			
禁止使用 / Banned	(1)	用于下述 (2) 以外的情况 / Used in the other than the following (2).	
可以使用 / Usable	(2)	如难以替代, 则须经夏普采用决定部门的许可。 / It is difficult to substitute, and a permission from the adoption decision department in Sharp was obtained. (必填) 难以替代的理由/使用部位 / (Required fields) Reason for "difficult to substitute" and Point of use	
17 磷酸三 (2-氯乙基) 酯 (TCEP) / Tris (2-chloroethyl) phosphate (TCEP)			
禁止使用 / Banned	(1)	"用于面向儿童 (12岁以下) 的产品以及用纤维等覆盖的家用家具等" / Used in products for children 12 and under or home furnishings covered with fiber.	
可以使用 / Usable	(2)	用于下述 (1) 以外的情况 / Used in the other than the above (1).	
18 磷酸三 (1-甲基-2-氯乙基) 酯 (TCPP) / Tris (2-chloro-1-methylethyl) phosphate (TCPP)			
禁止使用 / Banned	(1)	"用于面向儿童 (12岁以下) 的产品以及用纤维等覆盖的家用家具等" / Used in products for children 12 and under or home furnishings covered with fiber.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	
19 磷酸三 (1,3-二氯-2-丙基) 酯 (TDCPP) / Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)			
禁止使用 / Banned	(1)	"用于面向儿童 (12岁以下) 的产品以及用纤维等覆盖的家用家具等" / Used in products for children 12 and under or home furnishings covered with fiber.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	
20 多环芳香烃 (PAH) / Polycyclic aromatic hydrocarbons (PAHs)			
禁止使用 / Banned	(1)	用于直接长时间接触或短时间反复接触人体皮肤或口腔的塑料或橡胶零部件。 / 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.	
可以使用 / Usable	(2)	用于上述 (1) 以外的情况 / Used in the other than the above (1).	X
21 苯乙烯和双异丁烯和二苯胺的反应物 (BNST) / Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)			
禁止使用 / Banned	(1)	用于下述 (2) 以外的情况 / Used in every application other than the following (2).	
可以使用 / Usable	(2)	用于轮胎除外的橡胶制零部件 / Used in rubber except in tires.	
22 红磷 / Red phosphorus			
禁止使用 / Banned	(1)	用于树脂或橡胶中 / Used in plastic or rubber.	
可以使用 / Usable	(2)	用于上述 (1) 以外 / Used in the other than the above (1).	X
	(3)	符合上述 (1), 但难代替, 已得到夏普决定采用部门的批准 / Used in the above (1), and it is difficult to substitute, and a permission from the adoption decision department in Sharp was obtained. (必填) 难代替的原因·使用场所 / (Required fields) Reason for "difficult to substitute" and Point of use	