



Control Standard of
Chemical Substances in Products
Rev.004

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ROHM Co., Ltd.

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1. Objective

Using this guideline, ROHM group (hereinafter referred to as ROHM) will make clear the management of substances of environmental concern in the parts and materials they supply in order to prevent prohibited substances from mixing into ROHM products, and to reduce any harmful effects on natural ecosystems in compliance with relevant laws and ordinances.

2. Scope

The Guidelines shall apply to goods to be procured by ROHM. (hereinafter referred to as “target goods”).

- (1) Parts and materials of ROHM products
- (2) Products that are outsourced in whole or in part for manufacturing
- (3) Applies to packaging materials used for transporting and protecting ROHM products.
Packaging materials used by the supplier for transportation and protection are not covered. However, it is subject to direct contact with the target article and if the specified prohibited substance is transferred or mixed.
- (4) In principle, production equipment and jigs and tools are excluded from the scope, but we may ask for your cooperation in surveys due to contamination risks to ROHM products.

3. Definition of Terms

3.1 Chemical Substance

A chemical element or compound that either exists in nature or is obtained through a manufacturing process.

3.2 Mixture

A mixture intentionally comprising two or more chemical substances.
Examples are paints, inks, alloy ingot, solder, resin pellets, etc.

3.3 Chemicals

3.1 Chemical substance and/or mixture.

3.4 Article

An item of specific shape, appearance or design created during manufacture which substantially determines functions in final use rather than functions provided by its chemical composition.

3.5 Substances of environmental concern

A general term of substances considered to have a remarkable environmental impact in the health hazard to a human body and the global environment.

3.6 Environment-related Substances to be Controlled

Substances judged by ROHM considered to be had a remarkable environmental impact in the health hazard to a human body and the global environment.

3.6.1 Prohibited Substances

Restrict of use by laws and regulations or customer requirement in Environment-related Substances to be Controlled and prohibit inclusion in parts and materials procured by ROHM.

3.6.2 Controlled Substances

Manage and promote the substitution in Environment-related Substances to be Controlled by understanding actual conditions of use from laws and regulations, customer requirements and industry trends etc.

3.7 Homogeneous material

Homogeneous material means one material of uniform composition throughout or a material, consisting of a combination of materials that cannot be disjointed or separated into different materials by mechanical actions. (Ex. Plastic, ceramics, glass, metal, resin, coating agent, plating layer, painting / painting layer etc.)

3.8 Threshold level

Threshold level is defined as the maximum rate of content or content when a prohibited chemical substance is present in parts and materials.

3.9 Intentionally added

“Intentionally added” means a situation where a substance is contained in the materials because of deliberate addition filling, blending or adhesion in order to provide a specific characteristic, appearance, property, attribute or quality.

3.10 Impurity

Impurities are substances that are contained in natural material and cannot be removed by the current industrial technologies in the refining process.

3.11 IEC62321

Analysis methods for the substances specified in the EU RoHS Directive shall be based on the International Electro-technical Commission's (IEC).

3.12 ISO/IEC17025

International Standard “General requirements for the competence of testing and calibration laboratories”.

3.13 chemSHERPA

chemSHERPA is a common scheme for information transfer across a supply chain.

3.13.1 chemSHERPA-CI

Data entry support tool to transfer composition information for chemical substances and mixtures.

3.13.2 chemSHERPA-AI

Data entry support tool to transfer composition information and compliance information of articles.

3.14 Halogen free designated materials

Components specifying restrictions on chlorine, bromine, and antimony content

4. Commentary of Laws and Regulations

Major laws and regulations referenced to decide Environment-related Substances to be Controlled.

4.1 Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Law concerning the regulation of examination, manufacturing, etc. regulation of chemical substances.

4.2 Protection of the Ozone Layer Law

The Act on the Protection of the Ozone Layer Through the Control of Specified Substances and Other Measures (The Protection of the Ozone Layer Law) was enacted in 1988 in order to implement the resolutions of the Parties to the Montreal Protocol, in addition to the obligation

of contracting countries specified in the Vienna Convention for the Protection of the Ozone Layer, which is the international framework for ozone layer protection, and the Montreal Protocol on Substances that Deplete the Ozone Layer.

4.3 REACH Regulation (No 1907/2006)

Regulation regarding the registration, evaluation, approval and restriction of chemical substance which went into effect on 1 June 2007.

4.4 ELV Directive (2000/53/EC)

The “2000/53/EC” stands for the ELV Directive (End of Life Vehicles). It is a directive for reducing wastes from discarded automobiles and promoting collection and reuse of them, and recycle of their parts. The use of lead, mercury, cadmium, and hexavalent chrome is prohibited, in principle, for the automobiles to be sold after July 2003.

4.5 RoHS Directive (2011/65/EU)

The “2011/65/EC” stands for the RoHS (Restriction of the use of certain Hazardous Substances) Directive. It is an EU directive for restricting the use of certain hazardous substances for electrical and electronic equipment. It was enacted as 2002/95/EC in July 2006 with the aim of reducing the environmental load during reclamation or incineration after the use of the products and also preventing a mixture of hazardous substances into recycled materials. It was revised on 1 July 2011 and published as 2011/65/EU (commonly known as RoHS2).

(EU) 2015/863 amending directive, publication

4.6 POPs (Stockholm Convention on Persistent Organic Pollutants)

Stockholm Convention on Persistent Organic Pollutants is an international environmental treaty, signed in 2001 and effective from May 2004, that aims to eliminate or restrict the production and use of persistent organic pollutants (POPs). About the target substance, the member nation which has concluded treaties, such as Japan, will be regulated by a domestic statute so that each country can collateralize a treaty.

4.7 TSCA

TSCA: Toxic Substances Control Act

Regulations regulated by "chemicals, mixtures or chemicals, articles" manufactured, processed or imported in the United States for commercial use with the aim of preventing the risks posed by chemicals that are harmful to human health or the environment.

5. Request to suppliers

5.1 Construction and operation of a management system for chemical substances in products

Please establish and operate a management system based on the Guidelines for the Management of Chemicals in Products (CiP).

At the start of transactions and periodically, we will visit the supplier or conduct a self-assessment to confirm the construction and operation status of the supplier's management system.

- Guidelines for the management of chemicals in products (CiP) -Annex Check Sheet

Ref: <https://chemsherpa.net/english/docs/guidelines>

5.2 Chemical Substances in Products

In promoting Chemical Substances in Products, please cooperate in providing the following documents and information on compliance with laws and regulations.

No.	Types of data to be submitted	Format
1	Certificate of Nonuse of Prohibited Substances Attachment1	PDF
2	List of components Attachment2	EXCEL
3	Target Part numbers List Attachment3	PDF
4	chemSHERPA-CI (Chemical substances / Mixture)	SHCI
	chemSHERPA-AI (Article)	SHAI
5	Analysis data	PDF

Target goods	Certificate of Non-Use of Prohibited Substances	List of Component	Target Part numbers List	chem SHERPA CI/AI ^{*1}	Analysis data ^{*2}
	Attachment 1	Attachment 2	Attachment 3		
Parts and materials /outsourced products constituting ROHM products	○	○	※	○	○*
Packaging materials	○	○	※	○	○
Sub-materials	○	○	※	—	—

○:Need to be submitted —: Not need to be submitted

※: Need to be submitted only when replying in series

^{*1}chemSHERPA:

- Either ingredient information or complete ingredient information (FMD) is acceptable.
- Reporting complete ingredient information (FMD) is optional, but if your company submits FMD, there is no need to submit a List of Components.

^{*2}Analysis data

Semiconductor gases that are difficult to analyze due to physical properties such as danger and toxicity are excluded.

- ROHM may request the submission of documents for parts and materials specified separately.

5.2.1 Certificate of Nonuse of Prohibited Substances Attachment 1

We ask for a proof of statement that prohibited substances are less than the threshold levels in each homogenous material.

5.2.2 List of Components Attachment 2

- 1) Enter all data in one-byte characters.
- 2) Please enter the data of each part number.
- 3) In the "Major production sites" column, describe the name of country in which is finally produced.
- 4) For the product weight, fill in the weight of the product to be reported and choose the weight unit (kg, g, mg).
- 5) Entry of chemical substance information
 - In principle, fill in all the blank cells so that there are no blank cells (not filled in).
 - Fill in the chemical substance information for each homogeneous material so that the percentage is 100%.
 - If there are any substances that cannot be disclosed due to confidential manufacturing information, please indicate "Not disclosed" in the chemical substance name column. Undisclosed ingredients shall be less than 10% for each homogenous material, excluding prohibited substances and controlled substances. Please note that we may ask you to separately provide information on undisclosed substances.
 - Enter unintentional substances (impurities, byproducts) as far as they are known.
 - The CAS No. should be described as a number separated into three parts by a hyphen.
 - Enter product weight, chemical substance weight and content (wt%) in the cell concerned to two places of decimals.
 - For liquid, powder, and film materials, fill out their weight using particular weight and length (e.g.100g per 1 Meter).
- 6) Describe all chemical substances in each homogeneous material for composite parts and parts.

Classification method of homogeneous materials

- Example of the composite parts
 - Printed Circuit Board : Base Material, Wiring, Plating, Resist inks, Silk Print Ink
 - Connector : Housing, Contacts(pin)
 - Harness : Coating Material, Core, Housing, Contacts (pin)
 - Example of the parts
 - Surface Mounting Chip Product (e.g. capacitors)
 - : Main body of the part, Terminal bases, Terminal plating
 - Semiconductor parts
 - : Frames, Frame plating, Chip, Gold wire, Mold resin, Silver paste
- 7) Please choose the code of purpose for containing.

The code of purpose for containing

101:Main Component	107:Machanical Property
102:Thermal stability	108:Triboperformance
103:Vulcanizing agent	109:Corrosion resistance
104:Dyes , Pigment	110:Electric characteristic
105:Flame resistance	998:Impurity ,byproducts
106:Machining	999:Others

- 8) Describe further use/non-use of recycled material in homogeneous materials.

5.2.3 Target Part numbers List Attachment 3

- 1) Use the list if there are many products that the contents of "Certificate of Non-use of Prohibited Substances" and "List of Components" are identical.
- 2) Fill in the series product names and numbers in "Target Part numbers List".
 - Representative product name ... Fill in the representative product name.
Example of Representative product name: Cu frame, Ceramic capacitor, Gold wire, ○○ series.
 - Representative product number... Fill in the official name of each materials.
(Model name as registration at ROHM)
 - Weight ... Fill in the materials weight

5.2.4 chemSHERPA-CI / chemSHERPA-AI

Using the chemical substances in products information scheme within the supplier chain, report any and all information on products containing chemical substances.

Type of Delivery	Answer Format	Data Format
Chemical Substance	chemSHERPA-CI	V2ex format
Mixture		
Article	chemSHERPA-AI	

Points to note when creating and providing chemSHERPA

- Please download the data creation support tool from the chemSHERPA website and submit your data. <https://chemsherpa.net/english/tool>
- Please check the compliance judgment before creating chemSHERPA-AI.
- If SVHC is contained at 0.1% or more per article, SCIP information is also required.

5.2.5 Analysis Data

- 1) Unit of analysis measurement
Analysis reports need to be submitted in each homogeneous material constituting the materials.
- 2) Analysis Laboratory
Analysis report by the ISO/IEC17025 certified laboratories is required to meet customer requirements.
- 3) Analysis Report Substances

Target goods		Analysis data (Refer to Attachment 4)												
		Cd	Pb	Cr ⁶⁺	Hg	PBB	PBDE	Phthalates DEHP,DBP BBP,DIBP	Halogens				Sb	P
									F	Cl	Br	I		
Parts and materials / outsourced products constituting ROHM products	Resin Plastic	○	○	○	○	○	○	○	※	○	○	√※	○	※
	Other than the above	○	○	○	○	-	-	-	-	-	-	-	-	-
Packaging materials	Resin Plastic	○	○	○	○	○	○	○	-	-	-	-	-	-
	Other than the above	○	○	○	○	-	-	-	-	-	-	-	-	-
Sub-materials		-	-	-	-	-	-	-	-	-	-	-	-	-

○ : necessary - : not necessary ※ : Voluntary

(Remark) ROHM may ask suppliers for the additional analysis report by laws and regulations trend or ROHM's customer requirements.

4) Analysis Method

Substances	Polymers	Metals	Electronics
Lead/Cadmium (Pb/Cd)	IEC62321-5 (2013) ICP-OES, ICP-MS, AAS, AFS		
Mercury (Hg)	IEC62321-4 (2013) ICP-OES, ICP-MS, CV-AAS, CV-AFS		
Hexavalent chromium (Cr ⁶⁺)	IEC62321-7-2 (2017) Alkali decomposition / Colorimetric method	IEC62321-7-1 (2015) Boiling water extraction/ Colorimetric method	IEC62321-7-2 (2017) Alkali decomposition / Colorimetric method
Specific bromine- based flame retardants (PBB, PBDE)	IEC62321-6 (2015) GC/MS	NA	IEC62321-6 (2015) GC/MS
Phthalates (DIBP, DBP, BBP, DEHP)	IEC62321-8 (2017) GC/MS	NA	IEC62321-8 (2017) GC/MS
Halogens (F, Cl, Br, I)	BS EN14582 (2016) IC		
Antimony(Sb), Phosphorus(P)	US EPA 3052 (1996) ICP-OES	US EPA 3050B (1996) ICP-OES	US EPA 3052 (1996) ICP-OES

5) Allowable concentration

Shall meet the threshold levels of “6. Environment-related Substances to be Controlled”.

6) In the case of the same specification (Maker, Part number, Substances of environmental concern), the analysis report of a representative plant is acceptable.

7) Validity period for analysis report

The effective period of analysis report issued by analysis laboratories is one year from the date of measurement. We may ask you to provide annual updates.

8) Analysis report

Please enter the following items in the analysis report.

- ① Pretreatment method: Official method name or name of the method if different from the official method.
- ② Measurement method: Measurement method name or official method name.
- ③ Name of analysis laboratory, corporate seal, name and signatures of a responsible person at the analysis laboratory and a person who performed measurements.
- ④ Date of issue, date of measurement
- ⑤ Measurement results (If in the event of N.D.(Not Detectable), the minimum limit value of determination is also needed.)
- ⑥ Analysis Flow chart: The description method is entrusted to each one of the analysis laboratory. In principle, sample preparation, decomposition, filtration, dissolution, and other processes shall be stated, and at least the kind of reagents shall be entered in the flow chart.

5.2.6 Provision of other information

ROHM may request the information on chemical substances for which regulations are under consideration or on confirmation of compliance with laws and regulations in the country where the ROHM manufacturing factory is located.

6. Environment-related Substances to be Controlled

No.	Substance	CAS No.	Management classification	Scope	Threshold levels
1	Polychlorinated biphenyls (PCB)	-	Prohibit	All application	Intentionally added or 0.5ppm
2	Polychlorinated naphtalenes (PCN)	-	Prohibit	All application	Intentionally added
3	Polychlorinated terphenyls (PCT)	61788-33-8	Prohibit	All application	Less than 50ppm
4	Hexachlorobenzene (HCB)	118-74-1	Prohibit	All application	10ppm
5	Trisubstituted organostannic compounds including tributyltin(TBT)compounds and triphenyltin(TPT)compounds)	56-35-9	Prohibit	All application	Intentionally added or Less than 1000ppm of tin in the part
6	Dibutyltin (DBT) compounds	-	Prohibit	All application	Less than 1000ppm of tin in the part
7	Diocetyl tin (DOT) compounds	-	Prohibit	<ul style="list-style-type: none"> • Textile articles and leather products intended to come into contact with the skin • Childcare articles • Two-component room temperature vulcanisation moulding kits (RTV-2moulding kits) 	Less than 1000ppm of tin in the part
8	2,4,6-Tri-tert-butylphenol	732-26-3	Prohibit	All application	Intentionally added
9	2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol(UV-320)	3846-71-7	Prohibit	All application	Intentionally added or less than 1000ppm
10	Hexabromocyclododecane(HBCD) and all major Diastereoisomers	25637-99-4 3194-55-6 4736-49-6 65701-47-5 134237-50-6 134237-51-7 134237-52-8 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7	Prohibit	All application	Intentionally added or less than 75ppm in article
11	2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl) (UV-328)	25973-55-1	Prohibit	All application	Intentionally added or Less than 1ppm
12	Cadmium and its compounds	-	Prohibit	Other than the controlled substances	less than 100ppm
			Control	The latest version of RoHS Annex III/IV	-
13	Lead and its compounds	-	Prohibit	Electric wire, cable, cord	Less than 300ppm in surface coating material
			Prohibit	Other than the above	Less than 1000ppm in homogenous material
14	Hexavalent chromium compounds	-	Control	The latest version of RoHS Annex III/IV	-
			Prohibit	Other than the controlled substances	Less than 1000ppm in homogenous material
15	Mercury and its compounds	-	Control	The latest version of RoHS Annex III/IV	-
			Prohibit	Other than the controlled substances	Intentionally added or Less than 1000ppm in homogenous material
16	Four heavy metals (Cadmium, Lead, Hexavalent chromium and Mercury)	-	Prohibit	Packaging materials for shipment	Intentionally added and Sum of 4 substances less than 100ppm

No.	Substance	CAS No.	Management classification	Scope	Threshold levels
17	Polybrominated biphenyls (PBB)	-	Prohibit	All application	Intentionally added and Less than 1000ppm
18	Polybrominated diphenyl ethers (PBDE)	-	Prohibit	All application	Intentionally added and Less than 1000ppm
19	Phthalates				
	Diethylhexyl phthalate (DEHP)	117-81-7	Prohibit	All application	Less than 1000ppm
	Dibutyl phthalate (DBP)	84-74-2	Prohibit	All application	Less than 1000ppm
	Butyl benzyl phthalate (BBP)	85-68-7	Prohibit	All application	Less than 1000ppm
	Specific phthalates Group 1 (DEHP, DBP, BBP, DIBP)	117-81-7 84-74-2 85-68-7	Prohibit	Toy , child care products	Sum : Less than 1000ppm in plasticized material
	Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	Prohibit	All application	Less than 1000ppm
	Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	Prohibit	All application	Less than 1000ppm
	Di-n-octyl phthalate (DNOP)	117-84-0	Prohibit	All application	Less than 1000ppm
	Specific phthalates Group 2 (DINP, DIDP, DNOP)	28553-12-0 68515-48-0 26761-40-0 68515-49-1 117-84-0	Prohibit	Children's toy that can be placed in a child's mouth or child care products	Sum : Less than 1000ppm in plasticized material
	Diisobutyl phthalate (DIBP)	84-69-5	Prohibit	All application	Less than 1000ppm
	Phthalates other than the above	-	Control	All application	Less than 1000ppm
20	Polyvinyl chloride (PVC) and its mixtures	-	Prohibit	Other than the controlled substances	Less than 1000ppm
			Control	• Wafer processing film • Cable • Heat shrinkable tube • FFC • Resin binder	-
21	Perfluoroalkyl sulfonate and Polyalkyl substances				
	Perfluorinated carboxylic acids (PFCA)				
	PFOA (Perfluorooctanoic acid) , its salts and related substances	-	Prohibit	All application	• Intentionally added • PFOA and its salt:: less than 25ppb • Related substances : less than 1000ppb in substances, mixtures or articles
	Perfluorocarboxylic acids (C9-C14 PFCAs), their salts and related substances	-	Prohibit	All application	• C9-C14 PFCAs and their salts : less than 25ppb • C9-C14 related substances : less than 260ppb in substances, mixtures or articles
	Log-chain(perfluorocarboxylic acids (C9-C21 LC-PFCAs) and its salts and related substances	-	Prohibit	All application	Intentionally added
	Perfluorohexanoic acid(PFHxA) and its salt and related substances	-	Control	All application	-
	PFCA other than the above	-	Control	All application	-
	Perfluoroalkanesulfonic acid (PFSA)				
	Perfluorooctane sulfonic acid (PFOS) its salts and related compounds	-	Prohibit	All application	• Intentionally added • PFOS and its salt:: less than 25ppb • Related substances : less than 1000ppb in substances, mixtures or articles
	Perfluorohexane sulfonic acid(PFHxS) and its salt and related substances	-	Prohibit	All application	• Intentionally added • PFHxS and its salt: less than 25ppb • rlated substances : less than 1000ppb in substances, mixtures or articles
	Perfluorobutane sulfonic acid(PFBS) and its salt and related substances	-	Control	All application	-
	PFSA other than the above	-	Control	All application	-
	PFAS other than PFCA and PFSA	-	Control	All application	-

No.	Substance	CAS No.	Management classification	Scope	Threshold levels
22	Dimethylfumarate (DMF)	624-49-7	Prohibit	All application	Less than 0.1ppm
23	Shortchain Chlorinated Paraffins (C10-13) (SCCP)	-	Prohibit	All application	Intentionally added or less than 1000ppm of article
24	Medium Chlorinated Paraffins (C14-17) (MCCP)	-	Prohibit	All application	Intentionally added or less than 1000ppm of article
25	Arsenic and its compounds	-	Prohibit	Other than the controlled substances	Less than 1000ppm
			Control	· Compound semiconductor · Dopants for semiconductor · Copper foil of printed wiring board	-
26	Nickel and its compounds	-	Prohibit	Prolonged contact with the skin	0.28µg/cm2/week
			Control	Other than the above	-
27	Asbestos	-	Prohibit	All application	Intentionally added
28	Azocolourants and azodyes which form certain aromatic amine	Refer to Table.1	Prohibit	Applies to contact human skins directly for a long time	Less than 30ppm
29	Cobalt Chloride	7646-79-9	Prohibit	Indicator in a drying agent	Less than 1000ppm
30	Beryllium and its compounds				
	Beryllium oxide	7440-41-7	Prohibit	All application	Less than 1000ppm
	Other than the above	-	Control	Other than the prohibited substances	-
31	Antimony and its compounds				
	Antimony trioxide	1309-64-4	Prohibit	Materials specified as halogen free	Less than 1000ppm
	Other than the above	-	Control	Other than the prohibited substances	-
32	Bisphenols				
	Bisphenol A (BPA)	80-05-7	Prohibit	Thermal paper	Non use
			Control	Other than the prohibited substances	-
	Bisphenol B (BPB)	77-40-7	Control	All application	-
	Bisphenol S (BPS)	80-09-1	Control	All application	-
	Bisphenol F (BPF)	620-92-8	Control	All application	-
	Bisphenol AF (BPAF)	1478-61-1	Control	All application	-
	Tetrabromobisphenol A (TBBPA)	79-94-7	Control	All application	-
	Other than the above	-	Control	All application	-
33	Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	Prohibit	All application	Less than 1000ppm
34	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	Prohibit	All application	Less than 1000ppm
35	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Prohibit	All application	Less than 1000ppm
36	Isopropylphenyl phosphate (3:1) PIP (3:1)	68937-41-7	Prohibit	Other than control	Intentionally added
			Control	Lubricants, greases	
37	Red phosphorus Flame Retardants	-	Prohibit	All application	Intentionally added
38	Chlorinated Flame Retardants				
	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (Dechlorane Plus™)	13560-89-9 135821-03-3 135821-74-8	Prohibit	All application	(until 24.22.2025) Intentionally added (from 25.2.2025) Intentionally added and 1ppm
	Other chlorinated flame retardants	-	Prohibit	All application	Less than 900ppm (Cl)
39	Brominated Flame Retardants				
	Bromine compounds		Prohibit	Material specified as halogen free For PBB and PBDE, : see No.17 and 18.	Less than 900ppm (Cl) Less than 1500ppm (Br)
	Decabromodiphenyl Ethane (DBDPE)	-	Control		
	Other than the above	-	Control		

No.	Substance	CAS No.	Management classification	Scope	Threshold levels
40	Benzene	71-43-2	Prohibit	Material for manufacturing processes (Cleaning agents, Degreasers, Demolder solution)	Intentionally added
			Control	Other than the prohibited substances	-
41	Normal-hexane (N-hexane)	110-54-3	Prohibit	Material for manufacturing processes (Cleaning agents, Degreasers, Demolder solution)	Intentionally added
			Control	Other than the prohibited substances	-
42	N-Methyl-2-pyrrolidone (NMP)	872-50-4	Prohibit	Material for manufacturing processes (Cleaning agents, Degreasers, Demolder solution))	Intentionally added
			Control	Other than the prohibited substances	-
43	Toluene	108-88-3	Prohibit	Material for manufacturing processes (Cleaning agents, Degreasers, Demolder solution)	Intentionally added
			Control	Other than the prohibited substances	-
44	Pentachlorothiophenol (PCTP)	133-49-3	Prohibit	All application	Intentionally added-
45	Hexachloro-1,3-butadiene(HCBD)	87-68-3	Prohibit	All application	Intentionally added
46	Mineral oil	-	Prohibit	Packaging materials used to transport and protect ROHM products, and inks used for labels and printed materials attached to such packaging materials	<ul style="list-style-type: none"> •Mineral oil aromatic hydrocarbon (MOAH) containing 1 to 7 aromatic rings :0.1wt% in ink •Mineral oil aromatic hydrocarbons (MOAH) containing 3 to 7 aromatic rings: 0.0001wt% in ink •Mineral oil saturated hydrocarbons(MOSH) containing 16 to 35 carbon atoms: 0.1% by weight in ink
47	Ozone depleting substances (Montreal Protocol A, B, C, E Substances)	Refer toTable.3	Prohibit	All application	Intentionally added
48	Perchlorates (PCA)	-	Control	All application	-
49	Polycyclic aromatic hydrocarbon(PAH)	Refer toTable.2	Control	All application	-
50	Bismuth and its compounds	-	Control	All application	-
51	Siloxiane	-	Control	All application	-
52	Formaldehyde	50-00-0	Control	All application	-
53	1,4-Dioxane	123-91-1	Control	All application	-
54	Pigment Violet 29	81-33-4	Control	All application	-
55	REACH Regulation Candidate list of SVHC	-	Control	All application	-
56	Fluorinated greenhouse gases (PFC, SF6, SF4 etc.)	-	Control	All application	-
57	Other chlorine compounds	-	Prohibit	Organochlorine cleaning agent	New material, Intentionally added -
		-	Control	Other than the prohibited substances	-
58	Other bromine compounds	-	Control	All application	-

RoHS Annex III/IVExemption list

http://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm

http://ec.europa.eu/environment/waste/rohs_eee/adaptation_en.htm

Table 1. List of Amine, which shall not be generated by the decomposition of Azo compound

No.	Substance	CAS No.
1	4-aminodiphenyl	92-67-1
2	benzidine	92-87-5
3	4-chloro-o-toluidine	95-69-2
4	2-naphthylamine	91-59-8
5	o-aminoazotoluene	97-56-3
6	2-amino-4-nitrotoluene	99-55-8
7	p-chloroaniline	106-47-8
8	2, 4-diaminoanisole	615-05-4
9	4, 4'-Diaminodiphenylmethane	101-77-9
10	3, 3'-dichlorobenzidine	91-94-1
11	3, 3'-dimethoxybenzidine	119-90-4
12	3, 3'-dimethylbenzidine	119-93-7
13	3, 3'-dimethyl-4,4'-diaminodiphenylmethane	838-88-0
14	p- cresidine	120-71-8
15	4, 4'-methylene bis(2-chloroaniline)	101-14-4
16	4, 4'-oxydianiline	101-80-4
17	4, 4'-thiodianiline	139-65-1
18	o-toluidine	95-53-4
19	2, 4-toluenediamine	95-80-7
20	2, 4, 5-trimethylaniline	137-17-7
21	o-anisidine	90-04-0
22	4-aminoazobenzene	60-09-3

Table 2. Polycyclic aromatic hydrocarbon (PAH)

No.	Substance	CAS No.
1	Benzo[a]pyrene (BaP)	50-32-8
2	Benzo[e]pyrene (BeP)	192-97-2
3	Benzo[a]anthracene (BaA)	56-55-3
4	Chrysen (CHR)	218-01-9
5	Benzo[b]fluoranthene (BbFA)	205-99-2
6	Benzo[j]fluoranthene (BjFA)	205-82-3
7	Benzo[k]fluoranthene (BkFA)	207-08-9
8	Dibenzo[a,h]anthracene(DBAhA)	53-70-3

Table 3. Ozone depleting substances

Class	Name	Motoreal Protocol	Substance	Alias	Molecular formula	CAS No.
Class1	CFC	Annex A Group I	Trichlorofluoromethane	CFC-11	CFCl3	75-69-4
			Dichlorodifluoromethane	CFC-12	CF2Cl2	75-71-8
			Trichlorotrifluoroethane	CFC-113	C2F3Cl3	26523-64-8
			Dichlorotetrafluoroethane	CFC-114	C2F4Cl2	1320-37-2
			Monochloropentafluoroethane	CFC-115	C2F5Cl	76-15-3
	Halon	Annex A Group II	Bromochlorodifluoromethane	Halon-1211	CF2BrCl	353-59-3
			Bromotrifluoromethane	Halon-1301	CF3Br	75-63-8
			Dibromotetrafluoroethane	Halon-2402	C2F4Br2	25497-30-7
	Other CFC	Annex B Group I	Chlorotrifluoromethane	CFC-13	CF3Cl	75-72-9
			Pentachlorofluoroethane	CFC-111	C2FCl5	354-56-3
			Tetrachlorodifluoroethane	CFC-112	C2F2Cl4	28605-74-5
			Heptachlorofluoropropane	CFC-211	C3FCl7	-
			Hexachlorodifluoropropane	CFC-212	C3F2Cl6	3182-26-1
			Pentachlorotrifluoropropane	CFC-213	C3F3Cl5	134237-31-3
			Tetrachlorotetrafluoropropane	CFC-214	C3F4Cl4	29255-31-0
			Trichloropentafluoropropane	CFC-215	C3F5Cl3	1599-41-3
			Dichlorohexafluoropropane	CFC-216	C3F6Cl2	42560-98-5
			Chloroheptafluoropropane	CFC-217	C3F7Cl	-
	Carbon tetrachloride	Annex B Group II	Carbon tetrachloride	-	CCl4	56-23-5
	1,1,1-Trichloroethane	Annex B Group III	1,1,1-Trichloroethane	-	C2H3Cl3	71-55-6
	Chlorobromomethane	Annex C Group III	Chlorobromomethane	-	CH2BrCl	74-97-5
	Methylbromide	Annex E	Methylbromide	-	CH3Br	74-83-9
	HBFC	Annex C Group II	Dibromofluoromethane	-	CHFBr2	1863-53-7
			Bromodifluoromethane	HBFC-22B1	CHF2Br	1511-62-2
			Bromofluoromethane	-	CH2FBr	373-52-4
			Tetrabromofluoroethane	-	C2HFBr4	-
			Tribromodifluoroethane	-	C2HF2Br3	-
			Dibromotrifluoroethane	-	C2HF3Br2	-
			Bromotetrafluoroethane	-	C2HF4Br	124-72-1
			Tribromofluoroethane	-	C2H2FBr3	-
			Dibromodifluoroethane	-	C2H2F2Br2	-
			Bromotrifluoroethane	-	C2H2F3Br	421-06-7
			Dibromofluoroethane	-	C2H3FBr2	358-97-4
			Bromodifluoroethane	-	C2H3F2Br	359-07-9
			Bromofluoroethane	-	C2H4FBr	762-49-2
			Hexabromofluoropropane	-	C3HFBr6	-
			Pentabromodifluoropropane	-	C3HF2Br5	-
			Tetrabromotrifluoropropane	-	C3HF3Br4	-
			Tribromotetrafluoropropane	-	C3HF4Br3	-
			Dibromopentafluoropropane	-	C3HF5Br2	-
			Bromohexafluoropropane	-	C3HF6Br	2252-78-0
			Pentabromofluoropropane	-	C3H2FBr5	-
			Tetrabromodifluoropropane	-	C3H2F2Br4	-
			Tribromotrifluoropropane	-	C3H2F3Br3	-
			Dibromotetrafluoropropane	-	C3H2F4Br2	-
			Bromopentafluoropropane	-	C3H2F5Br	-
			Tetrabromofluoropropane	-	C3H3FBr4	-
			Tribromodifluoropropane	-	C3H3F2Br3	-
			Dibromotrifluoropropane	-	C3H3F3Br2	-
			Bromotetrafluoropropane	-	C3H3F4Br	-
			Tribromofluoropropane	-	C3H4FBr3	-
			Dibromodifluoropropane	-	C3H4F2Br2	-
			Bromotrifluoropropane	-	C3H4F3Br	-
			Dibromofluoropropane	-	C3H5FBr2	-
			Bromodifluoropropane	-	C3H5F2Br	-
			Bromofluoropropane	-	C3H6FBr	-

Class	Name	Motoreal Protocol	Substance	Alias	Molecular formula	CAS No.
Class2	HCFC	Annex C Group I	Dichlorofluoromethane	HCFC-21	CHFCI ₂	75-43-4
			Monochlorodifluoromethane	HCFC-22	CHF ₂ CI	75-45-6
			Monochlorofluoromethane	HCFC-31	CH ₂ FCI	596-70-4
			Tetrachlorofluoroethane	HCFC-121	C ₂ HFCI ₄	134237-32-4
			Trichlorodifluoroethane	HCFC-122	C ₂ H ₂ F ₂ CI ₃	354-15-4
			Dichlorotrifluoroethane	HCFC-123	C ₂ H ₂ F ₃ CI ₂	34077-87-7
			2,2-Dichloro-1,1,1-trifluoroethane	HCFC-123	CHCI ₂ CF ₃	306-83-2
			Monochlorotetrafluoroethane	HCFC-124	C ₂ H ₂ F ₄ CI	63938-10-3
			2-Chloro-1,1,1,2-tetrafluoroethane	HCFC-124	CHFCICF ₃	2837-89-0
			Trichlorofluoroethane	HCFC-131	C ₂ H ₂ F ₃ CI ₃	134237-34-6
			Dichlorodifluoroethane	HCFC-132	C ₂ H ₂ F ₂ CI ₂	25915-78-0
			Monochlorotrifluoroethane	HCFC-133	C ₂ H ₂ F ₃ CI	1330-45-6
			Dichlorofluoroethane	HCFC-141	C ₂ H ₃ F ₃ CI ₂	25167-88-8
			1,1-Dichloro-2,2,2-trifluoroethane	HCFC-141b	CH ₃ CF ₂ CI ₂	1717-00-6
			Chlorodifluoroethane	HCFC-142	C ₂ H ₃ F ₂ CI	25497-29-4
			1-Chloro-1,1-difluoroethane	HCFC-142	CH ₃ CF ₂ CI	75-68-3
			Chlorofluoroethane	HCFC-151	C ₂ H ₄ FCI	110587-14-9
			Hexachlorofluoropropane	HCFC-221	C ₃ HFCI ₆	134237-35-7
			Pentachlorodifluoropropane	HCFC-222	C ₃ H ₂ F ₂ CI ₅	134237-36-8
			Tetrachlorotrifluoropropane	HCFC-223	C ₃ H ₂ F ₃ CI ₄	134237-37-9
			Trichlorotetrafluoropropane	HCFC-224	C ₃ H ₂ F ₄ CI ₃	134237-38-0
			Dichloropentafluoropropane	HCFC-225	C ₃ H ₂ F ₅ CI ₂	127564-92-5
			Dichloropentafluoropropane	HCFC-225ca	CF ₃ CF ₂ CHCI ₂	422-56-0
			Dichloropentafluoropropane	HCFC-225cb	CF ₂ CI ₂ CF ₂ CHCI ₂	507-55-1
			Monochlorohexafluoropropane	HCFC-226	C ₃ H ₂ F ₆ CI	134308-72-8
			Pentachlorofluoropropane	HCFC-231	C ₃ H ₂ F ₅ CI ₃	134190-48-0
			Tetrachlorodifluoropropane	HCFC-232	C ₃ H ₂ F ₄ CI ₄	134237-39-1
			Trichlorotrifluoropropane	HCFC-233	C ₃ H ₂ F ₄ CI ₃	134237-40-4
			Dichlorotetrafluoropropane	HCFC-234	C ₃ H ₂ F ₅ CI ₂	127564-83-4
			Monochloropentafluoropropane	HCFC-235	C ₃ H ₂ F ₅ CI	134237-41-5
			Tetrachlorofluoropropane	HCFC-241	C ₃ H ₃ F ₄ CI ₄	134190-49-1
			Trichlorodifluoropropane	HCFC-242	C ₃ H ₃ F ₄ CI ₃	134237-42-6
			Dichlorotrifluoropropane	HCFC-243	C ₃ H ₃ F ₅ CI ₂	134237-43-7
			Monochlorotetrafluoropropane	HCFC-244	C ₃ H ₃ F ₅ CI	134190-50-4
			Monochlorotetrafluoropropane	HCFC-251	C ₃ H ₄ F ₄ CI ₃	134190-51-5
			Dichlorodifluoropropane	HCFC-252	C ₃ H ₄ F ₄ CI ₂	134190-52-6
			Monochlorotrifluoropropane	HCFC-253	C ₃ H ₄ F ₅ CI	134237-44-8
			Dichlorofluoropropane	HCFC-261	C ₃ H ₅ F ₄ CI ₂	134237-45-9
			Monochlorodifluoropropane	HCFC-262	C ₃ H ₅ F ₅ CI	134190-53-7
			Monochlorofluoropropane	HCFC-271	C ₃ H ₆ F ₅ CI	134190-54-8

To: ROHM Co., Ltd.

Date: _____

Certificate of Non-Use of Prohibited Substances

Company Name: _____

Address: _____

Sect./Dept.: _____

Responsible person

(Position,Signature): _____

Person in charge (Position): _____

TEL: _____

E-mail: _____

Manufacturer name: _____

Sect./Dept.: _____

Responsible person (Position): _____

TEL: _____

We and our group companies hereby certify that parts / materials to be delivered to ROHM including its group companies are less than the threshold levels of prohibited substances cited in "Control Standard of Chemical Substances in Products Rev.004" in homogeneous materials.

« Target parts / materials »

Product name: _____

Product number: _____

End

[illegible]

Attachment 2 List of Components Entering Example

■Ex.1: Lead frame

Product name:	Lead frame
Product number:	A-003
Product weight:	130.00 mg
Major production sites:	Japan/Malaysia

《Report on inclusion of Environment-related Substances to be Controlled》

Environment-related Substances to be Controlled	Presence or absence	Substance Name
Prohibited Substances	0.Not contained	
Controlled Substances	0.Not contained	

List of Component》

Homogeneous material	Raw material maker	Chemical substance name	CAS No.	Weight	Unit	Content (wt%)	Purpose of inclusion/intended use	Recycled material
Base Material	〇〇Steel	Copper	7440-50-8	129.77	mg	99.84	101:Main Component	0.Not used
		Iron	7439-89-6	0.097	mg	0.075	107:Machanical Property	0.Not used
		Phosphorus	7723-14-0	0.11	mg	0.085	107:Machanical Property	0.Not used
Plating	〇〇Chemicals	Copper	7440-50-8	0.020	mg	100.00	101:Main Component	0.Not used

■Ex.2: Printed Circuit Board

Product name:	Printed Circuit Board
Product number:	C-101
Product weight:	110.03 g
Major production sites:	Japan/Malaysia

《Report on inclusion of Environment-related Substances to be Controlled》

Environment-related Substances to be Controlled	Presence or absence	Substance Name
Prohibited Substances	1.Contained	Lead(impurity)
Controlled Substances	1.Contained	Lead(SVHC)

《List of Component》

Homogeneous material	Raw material maker	Chemical substance name	CAS No.	Weight	Unit	Content (wt%)	Purpose of inclusion/intended use	Recycled material
Base Material	〇〇Chemicals	Epoxy Resin	29690-82-2	19.76	g	25.00	101:Main Component	0.Not used
		Glass cloth	65997-17-3	57.71	g	73.01	101:Main Component	0.Not used
		Tributhyl phosphate	126-73-8	1.57	g	1.99	101:Main Component	0.Not used
Wiring	Nondisclosure	Copper	7440-50-8	15.28	g	99.64	101:Main Component	0.Not used
		Lead	7439-92-1	0.055	g	0.36	998:Impurity、byproduct	0.Not used
Ink	〇〇Ink	Tributhyl phosphate	126-73-8	15.13	g	98.73	101:Main Component	0.Not used
		Carbon black	1333-86-4	0.13	g	0.85	104:Dyes , Pigment	0.Not used
		Nondisclosure	—	0.065	g	0.42	106:Machining	0.Not used
Plating	OxChemicals	Gold	7440-57-5	0.33	g	100.00	101:Main Component	0.Not used

■Ex.3: Mold Resin

Product name:	Mold Resin
Product number:	D-202
Product weight:	4.75 g
Major production sites:	Japan/Malaysia

《Report on inclusion of Environment-related Substances to be Controlled》

Environment-related Substances to be Controlled	Presence or absence	Substance Name
Prohibited Substances	0.Not contained	
Controlled Substances	0.Not contained	

《List of Component》

Homogeneous material	Raw material maker	Chemical substance name	CAS No.	Weight	Unit	Content (wt%)	Purpose of inclusion/intended use	Recycled material
Base compound	〇〇Chemicals	Epoxy resin	29690-82-2	0.67	g	59.82	101:Main Component	0.Not used
		Phenol novolak	9003-35-4	0.45	g	40.18	101:Main Component	0.Not used
Flame retardant	〇〇Chemicals	Metal hydroxide	21645-51-2	0.16	g	70.80	105:Flame resistance	0.Not used
		Organic phosphorus compounds	-	0.066	g	29.20	105:Flame resistance	0.Not used
additive agent	〇△Chemicals	Carbon black	1333-86-4	0.034	g	100.00	104:Dyes , Pigment	0.Not used
Filler	〇〇Chemicals	Silica (amorphous)	60676-86-0	3.37	g	100.00	102:Thermal stability	0.Not used

■Ex.4: Cardboard box

Product name:	Cardboard box
Product number:	AB-1
Product weight:	1.25 kg
Major production sites:	Japan/Malaysia

《Report on inclusion of Environment-related Substances to be Controlled》

Environment-related Substances to be Controlled	Presence or absence	Substance Name
Prohibited Substances	0.Not contained	
Controlled Substances	0.Not contained	

《List of Component》

Homogeneous material	Raw material maker	Chemical substance name	CAS No.	Weight	Unit	Content (wt%)	Purpose of inclusion/intended use	Recycled material
Outer liner	〇〇Paper Mfg.	-	-	C5 (160g/m ²)	-	-	101:Main Component	1.Used
Core	〇〇Paper Mfg.	-	-	SCP (160g/m ²)	-	-	101:Main Component	1.Used
Back liner	〇〇Paper Mfg.	-	-	C5 (160g/m ²)	-	-	101:Main Component	1.Used
Ink	〇〇Ink	Tributyl phosphate	126-73-8	0.17	-	85.00	101:Main Component	0.Not used
		Carbon black	1333-86-4	0.020	-	10.00	104:Dyes , Pigment	0.Not used
		Nondisclosure	—	0.010	-	5.00	999:Others	0.Not used

To: ROHM Co., Ltd.

Date: _____

Target Part numbers List

Company Name: _____

Address: _____

Sect./Dept.: _____

Responsible person _____

(Position,Signature): _____

Person in charge (Position): _____

TEL: _____

E-mail: _____

Manufacturer name: _____

Sect./Dept.: _____

Responsible person (Position): _____

TEL: _____

Representative product name: _____

Representative product number: _____

We hereby certify that the following product names and numbers are identical with the contents of Certificate of Non-Use of Prohibited Substances of representative product name and number and chemical substances in constituent materials are also identical.

Note

No.	Product name	Product number	Product weight	Unit
1				
2				
3				
4				
5				
6				
7				
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10				
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12				
13				
14				
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19				
20				

Attachment 4 Scope of Substances of environmental concern Survey

Examples of Applications of Substances of environmental concern Survey

1. Parts and Materials constituting products

Materials name		Certificate of Non-Use Prohibited Substance	List of Component	chem SHERPA Cl/ Al	Analysis Data (Note)		Target substances of analysis												
							Cd	Pb	Cr ⁶⁺	Hg	PBB	PBDE	Phthalates	Halogens				Sb	P
														F	Cl	Br	I		
Resin materials	Protective resin, adhesive • Mold resin • Epoxy resin	○	○	○	○	○	○	○	○	○	○	○	○	※	○	○	※	○	※
	Films, tapes • Polyimide • Polyester	○	○	○	○	○	○	○	○	○	○	○	○	※	○	○	※	○	※
	Pastes • Silver, Carbon • Silicone • Polyimide	○	○	○	○	○	○	○	○	○	○	○	○	※	○	○	※	○	※
Metal materials	Wire • Gold, Aluminum, Copper	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-
	Metal sheet • Leadframe • Plated frame	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-
	Tantalums • Powder, Sintered object, Wire	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-
Inorganic materials	Ceramics • Ceramic substrate	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-
	Glasses • Liquid crystal glass • Glass tube	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-
Electronic parts, Composite parts	Semiconductor, Passive components • IC, Condenser Circuit board • PWB Cable, Electrical wire, Connecting parts • FPC, FFC • Covered wires • Connector	○	○	○	○	Resin Except resin	○	○	○	○	○	○	○	※	○	○	※	○	※
							○	○	○	○	-	-	-	-	-	-	-	-	-
Semiconductor element materials	Resin • Polyimide	○	○	○	○	Metal, Inorganic • Wafer • Target • Material gas*	○	○	○	○	○	○	○	○	○	○	○	○	○
		○	○	○	○		○	○	○	○	-	-	-	-	-	-	-	-	-
Plating materials	• Plating solution • Tin ball • Nickel ball	○	○	○	○		○	○	○	○	-	-	-	-	-	-	-	-	-

Material gas* : Semiconductor gases that are difficult to analyze due to physical properties such as danger and toxicity are excluded

2. Packaging Materials

Materials name		Certificate of Non-Use Prohibited Substance	List of Component	chem SHERPA Cl/ Al	Analysis Data (Note)	Target substances of analysis													
						Cd	Pb	Cr ⁶⁺	Hg	PBB	PBDE	Phthalates	Halogens				Sb	P	
													F	Cl	Br	I			
Resin materials	Plastic reel	○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-	
	Tube, Tube stopper	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Top tape	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Emboss tape	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Dicing tape	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Tray	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Protection film	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
	Case	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
Paper materials	Tape,Label Package box,Cardboard box	○	○	○	○	○	Ink part Except ink part	○	○	○	○	○	○	-	-	-	-	-	
INK	Ink cartridges and ink ribbons for printing on packaging materials	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-		
Composite parts	Blister bag	○	○	○	○	○	Resin Except resin	○	○	○	○	○	○	-	-	-	-	-	

The materials Listed in the table below are different documents of the submission.

Materials name		Certificate of Non-Use Prohibited Substance	List of Component	chem SHERPA Cl/ Al	Analysis Data (Note)	Target substances of analysis												
						Cd	Pb	Cr ⁶⁺	Hg	PBB	PBDE	Phthalates	Halogens				Sb	P
													F	Cl	Br	I		
Resin materials	Wafer Case	○	○	×	○	○	○	○	○	○	○	○	-	-	-	-	-	-
Display materials	Felt pen,Ball-point pen Ink cartridge	×	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tapes	×	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-

3. Sub-Materials

Materials name		Certificate of Non-Use Prohibited Substance	List of Component	chem SHERPA Cl/ Al	Analysis Data (Note)	Target substances of analysis												
						Cd	Pb	Cr ⁶⁺	Hg	PBB	PBDE	Phthalates	Halogens				Sb	P
													F	Cl	Br	I		
Resin materials	Resist	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grinding tape	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Chemicals	Flux	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cleaning solution	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Gas	Nitrogen,Forming	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Polishing material	Beads	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
	Slurry	○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Release agent (for mold)		○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-
Spray,Solvent		○	○	×	×	-	-	-	-	-	-	-	-	-	-	-	-	-

Note) Analysis Data :

Need to provide the data in each homogeneous materials.

Need to provide the both data of plating film and base material for plated parts.

○ : necessary — : not necessary ※ : voluntary

4.Other

Designated Parts/materials separately announced by ROHM

Examples of designated parts/materials (resin)		Certificate of Non-Use Prohibited Substance	List of Component	chem SHERPA Cl/ Al	Analysis Data (Note)	Target substances of analysis												
						Cd	Pb	Cr ⁺	Hg	PBB	PBDE	Phthalates	Halogens				Sb	P
													F	Cl	Br	I		
Containers for process transport	BOX	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
	Tube,stick	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
Printing materials	Screen	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
	Squeegee	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
Plastic molded products	Needle,syringe,plungers	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
	Mixing container	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
	Washing bottle	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	
	Resin sockets for inspection	○	○	x	x	-	-	-	-	-	-	-	-	-	-	-	-	

8. History and Content of Revisions

Rev.No	Date	Revision Contents
Rev.001	1 Nov. 2018	Document Release Requirements related to the management of chemical substances in products were separated independently from the Green Procurement Guideline and enacted as the Control Standard of Chemical Substances in Products.
Rev.002	1 Apr. 2022	<ul style="list-style-type: none"> • 4. Commentary of Laws and Regulations 4.6 2011/65 / EU, 4.8 TSCA: Addendum and review • 5.1 Green Procurement Added information on compliance with laws and regulations • 5.1.4 chemSHERPA-CI / chemSHERPA-AI Added *Precautions when creating chemSHERPA-AI • 5.1.2 List of constituent substances Attachment 2 Added the provision of information on non-disclosure substances • 5.1.5 Analysis Data 3) Analysis Report Substances Added analytical material for packaging materials 4) Analysis Method Modified analytical methods for antimony and phosphorus • 5.1.6 Provision of other information added • 6. Review of Environment-related Substances to be Controlled • Attachment 2 List of constituent substances Changed format and List of Components Entering Example • Attachment 3 Target Part numbers List Changed format
Rev.003	1 Aug. 2023	<ul style="list-style-type: none"> • 3.14 Halogen free designated materials: Addition of terminology • 5. Requests to business partners • 5.1 Construction and operation of a management system for chemical substances in products: Added • 5.2 Chemical Substances in Products <ul style="list-style-type: none"> • Title change • Added Guidelines for the management of chemicals in products (CiP)-Annex Check Sheet to Types of data to be submitted • Semiconductor gases that are difficult to analyze due to physical properties such as danger and toxicity Excluded • 5.2.5 Analysis data Changes to Halogen Analysis Requirement for Resin Components Constituting ROHM Products (Cl, Br, Sb: necessary, F, I, P: voluntary)

		<ul style="list-style-type: none"> • 6. Environment-related Substances to be Controlled • Overall review of threshold levels • Hexachlorobenzene : Designated as a prohibited substance • DiBP: added to phthalate group 1 • Perfluoroalkyl sulfonate and polyalkyl substances (PFAS) designated as environmental control substances • Perfluorocarboxylic acids (C9-C14 PFCAs), their salts and related Substances : Changed to "Log-chain(c9-c21)perfluorocarboxylic acids(PFCA) and its salts and related substances" • Long-chain perfluorocarboxylic acids (C9-C21) and their salts, related Substances : Designated as a prohibited substance • Perfluorooctane sulfonic acid (PFOS) and its salts : Substance name change • Perfluorohexanesulfonic acid (PFHxS) and its salts and related substances: Designated as a prohibited substance • Designate PFAS other than PFCA and PFSA as controlled substances • Bisphenols : Designated as Environment-related Substances to be Controlled Bisphenol B (BPB), bisphenol S (BPS), bisphenol F (BPF), bisphenol AF (BPAF), additions other than the above • Dechloran Plus : Designated as a prohibited substance • Attachment 1 Certificate of Nonuse of Prohibited Substances : Changed to Rev.003 • Attachment 2 List of components : Added content report column for Environment-related Substances to be Controlled • Attachment 4 Scope of Substances of environmental concern Survey Examples of Applications of Substances of Environmental Concern Survey • The analysis standard for halogen, Sb, and P of resin materials constituting the product was aligned with 5.2.5. • *: Gases for semiconductors that are difficult to analyze due to physical properties such as danger and toxicity : Added not subject to analysis data
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Rev.004	15 Nov. 2024	<p>2. Scope</p> <p>Added clarification of scope and investigation of production equipment and tools and tools.</p> <p>4. Commentary of Laws and Regulations</p> <p>Deleted 76/769/EEC 5.2 Confirmation of chemical substances in products</p> <p>5.2 Chemical Substances in Products</p> <ul style="list-style-type: none"> • Changed the classification of Target goods • Added information on submitting chemSHERPA • Changed description of analysis data <p>5.2.4 chemSHERPA-CI / chemSHERPA-AI</p> <ul style="list-style-type: none"> • Added output format • Changed notes on creating and providing chemSHERPA <p>5.2.5 Analysis data</p> <ul style="list-style-type: none"> • Changed parts and materials to goods and outsourced products <p>6. Environment-related Substances to be Controlled</p> <ul style="list-style-type: none"> • 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol (UV-328): Designated as a prohibited substance • PFOA: Changed threshold levels • C9-C14PFCAs: Changed threshold levels • C9-C21LC-PFCAs: Changed substance name • PFOS: Substance name and threshold levels changed • PFHxS: Threshold value changed • PIP3:1: Management classification, scope , and threshold levels changed • Dechlorane Plus: CAS No. added, threshold levels changed • Brominated flame retardants: Subdivision of substance name, management classification, and scope changed • Mineral oil: Designated as a prohibited substance <p>Attachment 4 Scope of Substances of environmental concern Survey</p> <ul style="list-style-type: none"> • 2. Packaging Materials : Added ink to target goods • 4.Other <p>Added examples to "Designated Parts/materials separately announced by ROHM"</p>
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