## **Guideline for Control of Chemical Substances** (Fifth Edition)

Ver6.0

#### **Parts and Materials**

**Cover Sheet** 

March, 2024

## SANYO DENKI CO., LTD.

#### **To our suppliers:**

## Guideline for Control of Chemical Substances(Fifth Edition) -To assist in procurement of environmentally-friendly materials/parts-

#### **Preface**

Recently, environmental concerns have been increasingly focused on in business activities. Companies are supposed to seek for construction of a "recycling-oriented" society based on the harmonization of human beings and the environment.

Not only supplying high quality products at low cost and ensuring delivery dates, companies are expected to develop and offer environmentally-friendly products.

To help construct a recycling-oriented society to protect the global environment and achieve sustained growth of the economy, we are trying to promote environmental management including acquisition of ISO14001 and develop and offer environmentally-friendly products/designs.

As a part of this program, we will promote "green procurement" to purchase environmentally-friendly materials/parts, etc. from our suppliers, who have been considering environmental concerns.

Please give us your cooperation in order to make the program a success.

#### 1. Scope

This guideline applies to parts/materials/half-finished products used in our products.

#### 2. Criteria for Green Procurement and Request to Suppliers

The supplier shall deliver products that satisfy the guideline for management of chemical substances to us. The supplier shall submit documents shown in the attached sheet form8 for the delivered products.

#### 3. Basic Polices and Criteria

None of the substances prohibited in this guideline shall be contained in products that you deliver to us. Chemical substances that may affect the environment shall be controlled by classifying them into the following four categories.

#### (1) RoHS restricted substances (Substances applicable to guarantee)

There are ten substances whose use is prohibited by the RoHS Directive.

Exemptions from the prohibition are specified in the RoHS Directive.

The substance in a product and rate of the substance in the homogeneous materials including intentional inclusions or impurities shall be presented by means of Form 6 "Survey Sheet". A guarantee form shall be submitted in Form No. 14 or 7.

The analytical data such as ICP·GC/MS based on the actual measurement of the homogeneous materials shall be attached to the guarantee letter for verification.

The safety data sheet (SDS) shall not be used.

#### (2)-1 Prohibited substances (Substances applicable to non-containing guarantee)

Substances that cannot be used due to international/national regulations or customer requirements. Guarantee non-containing and submit the certificate (Form 14 or 7). If the substance is included, submit the prohibited substance containing report (Form 9).

#### (2)-2 Prohibited substances (No intentional containing)

Substances specified as the carcinogenic substances (1st group) by Japan Society for Occupational Health Substance group 1,specified chemical substances in Ordinance on the Prevention of the Hazard due to Specified Chemical Substances (Substances to be permitted)

Substances prohibited by us to be included in products

#### (3) Controlled substances

Substances that are subject to control/reduction when used in our products.

If any of them are contained, present their amounts.

As for the SVHC (Substances of Very High Concern) listed in the REACH Regulation, "contained" is defined as the content of the substance of 0.1 wt% or more of the mass of each component constituting the product.

#### (4) chemSHERPA data

A common scheme for communication of information on chemical substances contained in products governed by the JAMP (Joint Article Management Promotion-consortium). It is available throughout the supply chain and enables the communication of component information and legal compliance based on the common substance list.

#### 4. Definition of terms

#### 1) Intentional inclusion

It refers to addition/filling/adhesion by a manufacturer to continuously maintain the functionality/quality of their product. The use of impurities in the manufacturing processes for a semiconductor or the like in order to change its characteristics (doping) shall be deemed to be intentional inclusions.

#### 2) Inclusion

When a chemical substance is included in a product as a component, a residue or an adhered substance, it shall be deemed to be an inclusion whether it is an intentional inclusion or not.

#### 3) Impurity

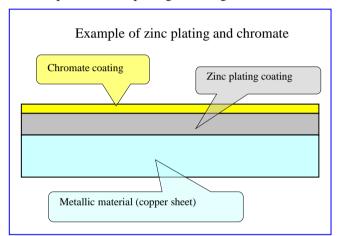
The substance is not intentionally added, filled, or adhered, or the substance is used in the natural materials and can not be completely removed technically in the refining process as the industrial material.

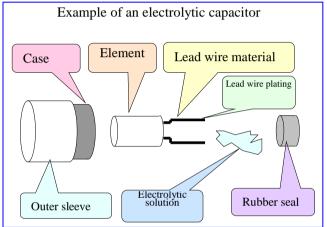
#### 4) Homogeneous material

A material that cannot be mechanically decomposed into other materials.

- Basically, "mechanically decompose" means removal of a material through a mechanical operation such as unscrewing, cutting, crushing, grinding, or polishing.

Example of decomposing a homogeneous material:





#### 5. Environmentally Harmful Chemical Substances: Applicability and Source

#### 1) RoHS restricted substances

Ten RoHS restricted substances:

[DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment]

All products delivered to us must not include the following 10 substances above the allowable concentration. (Excluding the exceptional items in RoHS Directive:ANNEX III)

Cadmium (Cd)
 PBDE (Polybrominated diphenyl ethers)
 Lead (Pb)
 DEHP (Bis(2-ethylhexyl) phthalate)
 Hexavalent chromium (Cr+)
 BBP (Butyl benzyl phthalate)
 PBB (Polybrominated biphenyls)
 DIBP (Diisobutyl phthalate)

#### Allowable limits of concentration of impurities contained (Revised directive (EU) 2015/863 ANNEX II)

 1. Cadmium (Cd) : 100 ppm
 6. PBDE : 1000 ppm

 2. Lead (Pb)\* : 1000 ppm
 7. DEHP : 1000 ppm

 3. Hexavalent chromium (Cr6+): 1000 ppm
 8. BBP : 1000 ppm

 4. Mercury (Hg) : 1000 ppm
 9. DBP : 1000 ppm

 5. PBB : 1000 ppm
 10. DIBP : 1000 ppm

\* Lead (Pb): 300 ppm in resin for cable coating (US regulation of the Proposition 65)

<sup>\*</sup> Concentrations of the impurities shall be measured for **each of homogeneous materials** at the appropriate part of the material and be expressed in ratio of mass.

**RoHS Exempted Item (ANNEX III)** 

Substance	Item	Exemption	• •	ration dates
Name	number		Category 1-7,10	Category8,9,11
Mercury	1(f)- I	For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	5:Feb.24,2027	-
	1(f)- Ⅱ	For special purposes: 5 mg	5:Feb.24,2025	1
	2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9): 10 mg	5:Feb.24,2025	-
	2(b)(4)- I	Lamps for other general lighting and special purposes (e.g. induction	5:Feb.24,2025	-
	2(b)(4)- <b>I</b>	lamps): 15 mg  Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	5:Feb.24,2027	_
		Emergency lamps: 15 mg	5:Feb.24,2027	-
	3(a)	Short length (< 500 mm): 3.5 mg	5:Feb.24,2025	_
	3(b)	Medium length (> 500 mm and < 1 500 mm): 5 mg	5:Feb.24,2025	_
	3(c)	Long length (> 1 500 mm): 13 mg	5:Feb.24,2025	_
	4(a)- I	Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp spectral output to be in the	5:Feb.24,2027	-
	4(b)	ultraviolet spectrum: up to 15 mg mercury may be used per lamp Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80: P ≤ 105 W: 16 mg may be used per burner	5:Feb.24,2027	-
	4(c)- I	P < 155 W :20 mg	5:Feb.24,2027	_
	4(c)- II	155W <p<405w:25mg< td=""><td>5:Feb.24,2027</td><td>-</td></p<405w:25mg<>	5:Feb.24,2027	-
	4(c)-III	P > 405 W : 25 mg	5:Feb.24,2027	_
	4(e)	Mercury in metal halide lamps (MH)	5:Feb.24,2027	_
	4(f)-I	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	5:Feb.24,2025	-
	4(f)-II	Mercury in high pressure mercury vapour lamps used in projectors where an output > 2000 lumen ANSI is required	5:Feb.24,2027	-
	4(f)-III	Mercury in high pressure sodium vapour lamps used for horticulture lighting	5:Feb.24,2027	-
	4(f)-IV	5:Feb.24,2027	-	
Lead	5(a)	Lead in glass of cathode ray tubes	-	9industrial,11:Jul.21,2
	5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	Jul.21,2016	9industrial,11:Jul.21,2
	6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	-	Other 8 and 9:Jul.21,2 8in vitro:Jul.21,202 9industrial,11:Jul.21,2
	6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight	Jul.21,2021	-
	6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	-	Other 8 and 9:Jul.21,2 8in vitro:Jul.21,202 9industrial,11:Jul.21,2
	6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead- bearing aluminium scrap recycling	Jul.21,2021	-
	6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	May.18,2021	-
	6(c)	Copper alloy containing up to 4 % lead by weight	Jul.21,2021	Other 8 and 9:Jul.21,3 8in vitro:Jul.21,203 9industrial,11:Jul.21,3
	7(a)	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	Jul.21,2021	Other 8 and 9:Jul.21, 8in vitro:Jul.21,20, 9industrial,11:Jul.21,
	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	1	9industrial,11:Jul.21,2
	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound	Jul.21,2021	Other 8 and 9:Jul.21,2 8in vitro:Jul.21,202 9industrial,11:Jul.21,2
	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Jul.21,2021	Other 8 and 9:Jul.21,2 8in vitro:Jul.21,202 9industrial,11:Jul.21,2
	7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete	-	9industrial,11:Jul.21,3
Cadmium	8(b)	Cadmium and its compounds in electrical contacts	-	Other 8 and 9:Jul.21, 8in vitro:Jul.21,20, 9industrial,11:Jul.21,
	8(b)-I	Cadmium and its compounds in electrical contacts used in: - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding hermetic thermal motor protectors), - AC switches rated at: - 6 A and more at 250 V AC and more, or - 12 A and more at 125 V AC and more, - DC switches rated at 20 A and more at 18 V DC and more, and	Jul.21,2021	-

Substance	Item	Exemption	Legal expi	ration dates
Name	number		Category1-7,10	Category8,9,11
Hexavalent chromium	9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	-	9industrial,11:Jul.21,2024
	9(a)-II	Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators:  - designed to operate fully or partly with electrical heater, having an average utilised power input ≥ 75 W at constant running conditions,  - designed to fully operate with non-electrical heater.	Jul.21,2021	•
	9(a)-III	Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon steel sealed circuit of gas absorption heat pumps for space and water heating	1:Dec.31,2026	-
Lead	9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	-	9industrial,11:Jul.21,2024
	13(a)	Lead in white glasses used for optical applications	Jul.21,2021	Other 8 and 9:Jul.21,2021 8in vitro:Jul.21,2023 9industrial,11:Jul.21,2024
Lead/ Cadmium	13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	-	Other 8 and 9:Jul.21,2021 8in vitro:Jul.21,2023 9industrial,11:Jul.21,2024
Lead	13(b)-(I)	Lead in ion coloured optical filter glass types	Jul.21,2021	-
Cadmium	13(b)-(II)	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Jul.21,2021	-
Lead/ Cadmium	13(b)-(III)	Cadmium and lead in glazes used for reflectance standards	Jul.21,2021	-
Lead	15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	-	Other 8 and 9:Jul.21,2021 8in vitro:Jul.21,2023 9industrial,11:Jul.21,2024
	15(a)	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:  - a semiconductor technology node of 90 nm or larger;  - a single die of 300 mm2 or larger in any semiconductor technology node;  - stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger.	Jul.21,2021	-
	17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	-	9industrial,11:Jul.21,2024
	18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)	Jul.21,2021	Other 8 and 9:Jul.21,2021 9industrial,11:Jul.21,2024
	18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	5:Jul.21,2021	8:Jul.21,2021
Lead/ Cadmium	21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	-	9industrial,11:Jul.21,2024
Lead	24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Jul.21,2021	Other 8 and 9:Jul.21,2021 8in vitro:Jul.21,2023 9industrial,11:Jul.21,2024
	25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	-	9industrial,11:Jul.21,2024
	29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	Jul.21,2021	9industrial,11:Jul.21,2024
Cadmium	30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	-	9industrial,11:Jul.21,2024
Lead	31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	-	9industrial,11:Jul.21,2024
	32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Jul.21,2021	Other 8 and 9:Jul.21,2021 9industrial,11:Jul.21,2024
	33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers	-	9industrial,11:Jul.21,2024
	34	Lead in cermet-based trimmer potentiometer elements	Jul.21,2021	Other 8 and 9:Jul.21,2021 8in vitro:Jul.21,2023 9industrial,11:Jul.21,2024
	37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	-	9industrial:Jul.21,2024
Cadmium	38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	-	9industrial,11:Jul.21,2024
	39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< $0.2~\mu g$ Cd per mm 2 of display screen area)	Oct.31,2019	Oct.31,2019

Substance	Item	Exemption	Legal expi	ration dates
Name	number	Exemption	Category 1-7,10	Category8,9,11
Lead	41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (1) (1)Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997 on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery (OJ L 59, 27.2.1998, p. 1).		9industrial:Jul.21,2024
	42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: - with engine total displacement $\geq 15$ litres; or - with engine total displacement $< 15$ litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than $10$ seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.	-	11:Jul.21,2024
DEHP	43	Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:  (a) 30 % by weight of the rubber for  (i) gasket coatings;  (ii) solid-rubber gaskets; or  (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.  (b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).  For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.	-	11:Jul.21,2024
Lead	44	Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council,installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users	-	11:Jul.21,2024
Lead/ Hexavalent chromium	45	Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use	-	11:Apr.20,2026
Lead/ Cadmium	46	Cadmium and lead in plastic profiles containing mixtures produced from polyvinyl chloride waste (hereinafter referred to as "recovered rigid PVC"), used for electrical and electronic windows and doors, where the concentration in the recovered rigid PVC material does not exceed 0,1 % cadmium by weight and 1,5 % lead by weight.	-	11:May.28,2028

Abbreviation: 8in vitro - for category 8 in vitro diagnostic medical devices

9industrial - for category 9 industrial monitoring and control instruments Other 8 and 9  $\cdots$  Categories 8 and 9 not belonging to specific subcategory

(Additional exemptions shall be also applicable in compliance with the attached documents to the latest edition of 2011/65/EU.)

#### Substances used in packaging materials

Substance name: Heavy metals (mercury, cadmium, hexavalent chromium, lead)

Applicability: Packaging materials that are used in our products and to be delivered to our customers.

Permissible concentration: The total concentration of lead, mercury, cadmium, and hexavalent chromium contained in the package or packaging component shall be less than 100 ppm.

#### 2) Prohibited substances

We specify prohibited substances based on the following regulations:

- 2)-1 Prohibited substances (Substances applicable to non-containing guarantee)
  - 1. Ozone layer protection related laws such as regulations on specific substances (substances regulated under the Montreal Protocol)
  - 2. Article 55 of the Industrial Safety and Health Law (prohibition of production, import, and use)
  - 3. Class 1 & 2 chemical substances according to the Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances
  - 4. Law Concerning Special Measures against Dioxins
  - 5. Registration, Evaluation, Authorisation and Restriction of Chemicals Annex X VII, etc.
  - 6. Law on the Regulation of Nuclear Source Material, Nuclear Fuels Material and Reactors
  - 7. Poisonous and Deleterious Substances Control Law (specified poisonous substances)
  - 8. Specific chlorinated flame retardants(Vermont Statutes)
  - 9. Five PBT substances under TSCA regulation
  - 10. Packaging and packaging waste directive (94/62/EC)
- 2)-2 Prohibited substances (No intentional containing)
  - 1. Substances designated as cancer-causing substances (group 1) by Japan Society for Occupational Health
  - 2. Class 1 substances (permission for production required) according to the Ordinance on Prevention of Hazards due to Specified Chemical Substances
  - 3. POPs Convention (Stockholm Convention on Persistent Organic Pollutants) Annex A
  - 4. TSCA: Toxic Substances Control Act
  - 5. French Law 2020-105 relating to the fight against waste and the circular economy

#### **Exemptions**

Substances to be used for the following purposes shall be exempted from application of the rule to prohibit the substances from being included in a product.

	Name of the Substance: Arsenic and its Compounds
E	• Chemical compound semiconductors and copper foil for a printed circuit board including
Exempted Material	arsenic as a component.
	• A material in which arsenic of 1000 ppm or less content is included as an impurity.

	Name of the Substance: Beryllium and its Compounds
Exempted	Copper Beryllium Alloy, Nickel-Beryllium Alloy
Material	• A material in which beryllium of 1000 ppm or less content is included as an impurity.

#### 3) Controlled substances

We specify controlled substances based on the following regulations:

- 1. Act on Promotion of Global Warming Countermeasures
- 2. California Proposition 65
- 3. Registration, Evaluation, Authorisation and Restriction of Chemicals Annex X VII
- 4. Registration, Evaluation, Authorisation and Restriction of Chemicals SVHC (Substance of Very High Concern)

#### **Documents to be submitted (Notes)**

Please send all responses by e-mail.

- 1) Form 6 "Environmentally Harmful Substances (Parts and Materials) Survey Sheet"
- 2) Form 12 "SVHC Content Survey Sheet"
- 3) Form 9 "Prohibited substance containing report": Submit the report if the prohibited substance is used.

Please submit 1)2)3) above as Excel data. (For automatic registration of the environment database)

Please do not forget to include the name of the person who prepared the document,

the name of the department in charge, the department or the person to be contacted,

the E-mail address, etc.

4) Form 14 "Guarantee of conforming to hazardous substances restricted by RoHS Directive and non-containing guarantee of prohibited substances (Lead-free Metals Version) Ver.A"

When you cannot submit the Lead-free Metals Version Guarantee of conforming Ver.A, please submit the following Guarantee of conforming Ver.B.

Form 7 "Guarantee of conforming to hazardous substances restricted by RoHS Directive and non-containing guarantee of prohibited substances (for Products with Metals in which Lead 6(a)-I, 6(b)-II, or 6(C) is Used) Ver.B"

When the use falls under the exceptions recognized by the RoHS Directive, please be sure to indicate whether you have an alternative plan and the planned timing of the elimination in the "alternative schedule" area in the remarks block of the questionnaire (Form 6).

Please submit the declaration form with the seal of the responsible person via E-mail in PDF format. (An electronic seal may be used.)

5) The analytical data such as ICP based on the actual measurement shall be submitted together.

Submit the high accuracy analysis data of each "homogenous material" constituting the part, such as ICP·GC/MS analysis. The analysis method is based on IEC62321.

The flowchart that indicates the analysis procedure must be attached.

Make sure it is clearly indicated that the sample is completely dissolved for ICP.

If a part uses common materials in the series, etc., submit the documents of each series, if possible.

In this case, attach the list or the like that shows the relationship between our item No. and each data.

6) Submission of data by chemSHERPA-AI (latest version of Article) managed by JAMP (Joint Article Management Promotion-consortium)

Refer to the website of chemSHERPA for details of the entry method, etc.

https://chemsherpa.net/english

Prepare the data using the latest "Data entry support tool for the chemSHERPA-AI" that is put on the chemSHERPA website, and submit it in a shai file. Both the composition information and compliance information are indispensable. Enter the hierarchy name/part name of component information using half-width alphanumeric characters.

If SVHC is contained, be sure to write the SCIP information into the component information and legal compliance judgment information. Be sure to make an error check to submit data with no error and warning.

Download "Data entry support tool for the chemSHERPA-AI" from the following URL.

https://chemsherpa.net/english/tool

Concerning the harness (lead wire connector assembly), do not submit the data of each harness but submit the individual AIS data of each member used such as the lead wire, connector, and terminal.

(Generate and submit the data of each report.)

If the information of the contained substance per unit mass is the same for multiple members such as the metal processing parts, submission of the data of each material is acceptable.

#### Contact/where to submit:

Material Administration Department, Sanyo Denki Co., Ltd.

Address: Ueda-shi, Nagano Pref.

386- Japan

Tel: +81-(0)268- Fax: +81-(0)268-

E-MAIL:

Form6

## **Environmentally Harmful Substances (Parts and Materials) Survey Sheet (Form6)**

		`		<u>′                                     </u>	
<sanyo< td=""><td>Denki Item No.&gt;</td><td><product name=""></product></td><td>RoHS10 compatible (Y: yes, N: no)</td><td>No.</td></sanyo<>	Denki Item No.>	<product name=""></product>	RoHS10 compatible (Y: yes, N: no)	No.	
<produc< td=""><td>ct Model No.&gt;</td><td><product mass:g="">⇒</product></td><td>g</td><td></td><td><entry date=""></entry></td></produc<>	ct Model No.>	<product mass:g="">⇒</product>	g		<entry date=""></entry>
ıfac- er	<company name=""></company>	<address></address>	<department name=""> <tel></tel></department>		
Manufao turer	<name of="" person="" responsible=""></name>	<name charge="" in="" of="" person=""></name>	<e-mail></e-mail>		
omer	<company name=""></company>	<address></address>	<department name=""></department>	T>	TEL>
Custc	<name of="" person="" responsible=""></name>	<name charge="" in="" of="" person=""></name>	<e-mail></e-mail>		

If you inputting data on an Excel sheet, values in the "Rate of Content in Product" column will be automatically calculated. You will only have to input data in green cells. If you are filling in a paper form, you will also need to enter data in the "Rate of Content in Product" column.

Batch input button (presence/absence of all substances can be input at a time)⇒

(1) RoHS restricted substances (Substances applicable to guarantee conforming to RoHS Directive: also specify impurities if any)

Sanyo No.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product (ppm)	Rate of Content in Homogeneous Material (ppm)	Containing Part	Intended use (Intentional use or inclusion as impurity. Exceptions No. from RoHS should be clarified.)	Remarks "Alternative plan"  When the use falls under the exceptions recognized by the RoHS Directive, be sure to indicate whether you have an alternative plan and the planned timing of the elimination.	Applicable Regulations
153	<example entry="" of=""> Lead and its compounds</example>	Y	400	3000	32000	Free-cutting brass	Machinability (intentional), exception from RoHS:6(c)	Alternative plan is available Reduced in Dec. 20**	RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	<example entry="" of=""> (Lead and its compounds)</example>	-	-	-	920000	High-temperature solder	Jointing (intentional), exception from RoHS:7(a)	Unscheduled for reduction.	RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	<example entry="" of=""> (Lead and its compounds)</example>	-	-	-	465000	Chip resistor	Protective coat (intentional), exception from RoHS:7(c)- I	Alternative plan is available Reduced in Dec. 20**	RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	<example entry="" of=""> (Lead and its compounds)</example>	-	-	ı	100	Paint	Impurity	Unscheduled for reduction.	RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
153	Lead and its compounds								RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	(Lead and its compounds)	-	-	-					RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	(Lead and its compounds)	-	-	-					RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	(Lead and its compounds)	-	-	-					RoHS Directive; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
46	Cadmium and its compounds								RoHS Directive; notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical Substances; Water Pollution Control Law, Waste Disposal and Public Cleaning Law.
28	Hexavalent chromium compounds								RoHS Directive; notification of carcinogenicity; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
181	Mercury and its compounds								RoHS Directive; Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical Substances; Water Pollution Control Law; Waste Disposal and Public Cleaning Law
11	PBDE (Polybrominated diphenyl ethers)								RoHS Directive
12	PBB (Polybrominated biphenyls)								RoHS Directive
504	DEHP (Bis(2-ethylhexyl) phthalate)								RoHS Directive(2015/863)
505	BBP (Butyl benzyl phthalate)								RoHS Directive(2015/863)
506	DBP (Dibutyl phthalate)								RoHS Directive(2015/863)
507	DIBP (Diisobutyl phthalate)								RoHS Directive(2015/863)

(2)-1 Prohibited substances (Substances applicable to non-containing guarantee: Use of the substance is prohibited. If the threshold value or applicable item is specified in the laws, it is applied.)

Applicable Regulations	Inclusion (Y: yes, N: no)	Remarks
1. Ozone layer protection related laws such as regulations on specific substances (substances regulated under the Montreal Protocol)		
2. Article 55 of the Industrial Safety and Health Law (prohibition of production, import, and use)		The targets are the substances written in the report on
3. Class 1 & 2 chemical substances according to the Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances		presence of Prohibited substance containing report
4. Law Concerning Special Measures against Dioxins		(Form 9i).  - If the prohibited substances are not contained,
5. Registration, Evaluation, Authorisation and Restriction of Chemicals Annex X VII, etc.		select "N" in the column for presence/absence on the
6. Law on the Regulation of Nuclear Source Material, Nuclear Fuels Material and Reactors		left.
7. Poisonous and Deleterious Substances Control Law (Specified Poisonous Substances)		- If the prohibited substances are contained, select "Y" and fill in the report on presence of Prohibited
8.Specific chlorinated flame retardants(Vermont Statutes)		substance containing report and submit it.
9. Five PBT substances under TSCA regulation		(Submission is not necessary if not contained.)
10. Packaging and packaging waste directive (94/62/EC) (Apply the material to pack the products shipped by Sanyo Denki)		

	Prohibited substances (show data on intentiona			Rate of				
anyo No.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Content in Product (ppm)	Containing Part	Intended Use	Remarks	Applicable Regulations
1. Sub	stances designated as cancer-causing substances (group 1)	by Japan Soc	iety for Oc	cupational :	Health			
26	Erionite							Notification of carcinogenicity
27	Chlorovinyl (chlorovinyl monomer; Another name:Chloroethylene) (except PVC)							Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Hazar due to Specified Chemical Substances
30	Mineral oils (unpurified products and semipurified products)							Notification of carcinogenicity
31	Coal tar							Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Haza due to Specified Chemical Substances
32	Volatile substance in coal tar pitch							Notification of carcinogenicity
33	Soot							Notification of carcinogenicity
35	Talc (product containing asbestos fiber)							Notification of carcinogenicity
36	2-naphthylamine							Notification of carcinogenicity
37	Nickel Compounds(refining dusts) (Nickels other than the above should be described in No268.)							Notification of carcinogenicity
38	Arsenic and inorganic arsenic compounds (Excluding the semiconductor and printed board copper foil; If they are used, mention the use and specify that they are excluded.)							Notification of carcinogenicity; Water Pollution Control Law; Waste Disposal and Public Cleaning Law, Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Chemi Substances
39	Benzene							Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical Substances; Water P Control Law; Waste Disposal and Public Cleaning Law; Article 55 of the Industrial Safety and Heal; EU REACH regulation Annex X VII
40	Benzotrichloride							Notification of carcinogenicity; Class 1 substances according to the Ordinance on Prevention of Haza
41	Dichlordiethyl sulfide (Another name: Mustard gas, yperite)							Notification of carcinogenicity
43	Ethylene oxide							Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Haza
73	Asbestos							due to Specified Chemical Substances  Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Haza
	Trichloroethylene(Another name: Trichlene)							due to Specified Chemical Substances  Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Haza
	Shale oil							due to Specified Chemical Substances  Notification of carcinogenicity
	Wood dust							Notification of carcinogenicity  Notification of carcinogenicity
	1,3-butadiene  Crastalling cilies (With the four of dust)							Notification of carcinogenicity
	Crystalline silica (With the fear of dust)							Notification of carcinogenicity
	2,3,7,8-tetrachlorodibenzo-p-dioxin							Notification of carcinogenicity  Notification of carcinogenicity; Class 2 substances according to the Ordinance on Prevention of Haz.
	1,2-Dichloropropane							due to Specified Chemical Substances
	Benzo[a]pyrene							Notification of carcinogenicity
	Ionization radiation							Notification of carcinogenicity
	ss 1 substances (permission for production required) accord	ding to the O	rdinance on	Prevention	of Hazards due to Specified Chemical S	ubstances		Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
	Benzotrichloride							Substances
56	Beryllium and its compounds (Excluding beryllium copper alloy and beryllium nickel alloy; If they are used, mention the use and specify that they are excluded.)							Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical Substances; Waste Disposal and Public Cleaning Law
66	Dichlorobenzidine and its salts							Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
67	α-naphthylamine and its salts							Substances Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
	PCB(polychlorinated biphenyl)							Substances  Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
69	o-tolidine and its salts							Substances Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
	Dianisidine and its salts							Substances  Class 1 substances according to the Ordinance on Prevention of Hazards due to Specified Chemical
		- D-U-4 - 4 \	A A					Substances
. PU	Ps Convention (Stockholm Convention on Persistent Organi	ic Pollutants)	Annex A					
508	Methoxy[2,2,2-trichloro-1-(methoxyphenyl)ethyl]benzene (Other name: methoxychlor)							POPs Convention Annex A
09	1,2,3,4,7,8,9,10,13,13,14,14-Dodecachloro- 1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10- dimethanodibenzo[a,e]cyclooctene (Other name: Dechlorane Plus)							POPs Convention Annex A
610	2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-bis(2-methylbutan-2-yl)phenol (Other name: UV-328)							POPs Convention Annex A

Sanyo No.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product (ppm)	Containing Part	Intended Use	Remarks	Applicable Regulations
4. TSC	CA: Toxic Substances Control Act							
590	Long-chain perfluoroalkyl carboxylate chemical substances(LCPFACs) (Limited to parts with fluorine-based surface coating)							TSCA: Toxic Substances Control Act
<b>5. Fre</b>	ench Law 2020-105 relating to the fight against waste and th	e circular ec	onomy (Ap	plied to pa	ckaging materials and attached manuals for	products shipped by Sanyo D	enki)	
591	Mineral oil ink Target use: Packing material, instruction manual [1] The content of mineral oil aromatic hydrocarbons (MOAH) comprising from 1 to 7 aromatic rings must be 1% or less. [2] The content of mineral oil hydrocarbons (MOAH) comprising from 1 to 2 aromatic rings and hydrocarbons saturated with mineral oil (MOSH) comprising from 16 to 35 carbon atoms must be 0.1% or less. [2] The content of mineral oil aromatic hydrocarbon (MOAH) comprising from 3 to 7 aromatic rings must be 1 ppm or less							French Law 2020-105

nyo Io.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product (ppm)	Co	ontaining Part	Intended Use	Remarks	Applicable Regulations
. Act	on Promotion of Global Warming Countermeasures		_					_	
	Carbon dioxide								Act on Promotion of Global Warming Countermeasures
67	Methane								Act on Promotion of Global Warming Countermeasures
58	Nitrous oxide								Act on Promotion of Global Warming Countermeasures
59	Hydrofluocarbon								Act on Promotion of Global Warming Countermeasures
0	Perfluocarbon								Act on Promotion of Global Warming Countermeasures
1	Sulfur hexafluoride								Act on Promotion of Global Warming Countermeasures
Cali	ifornia Proposition 65								
5	Di-isodecyl phthalate(DIDP)								Proposition 65
	Di-n-hexyl phthalate(DnHP)								Proposition 65
	Diisononyl Phthalate(DINP)								Proposition 65
	gistration, Evaluation, Authorisation and Restriction of Che	micals Anne	ex X VII						
_	Selected Phthalates Group 2 (DIDP, DINP, DNOP)		71 71 VI						EU REACH regulation Annex X VII
	Nickel or its compounds								
3	(Report if it is used intentionally: For control )								EU REACH regulation Annex X VII
	Dioctyltin compound								
	(Content of 0.1 wt% or more of the delivered product as								EU REACH regulation Annex XVII
	converted to tin)								Le Real regulation Affica 22 vii
	Azo dye/pigment								
)	(azo dye/pigment that forms a specific amine)								EU REACH regulation Annex X VII
,	(Report if it is used intentionally: For control )								German commodity goods ordinance
	Polycyclic aromatic hydrocarbons (PAHs;Annex XVII substances)								EU REACH regulation Annex XVII
	(Report if it is used intentionally: For control )								Le Remember regulation runtex 22 va
Othe									
5	Antimony and its compounds (Diantimony trioxide should be listed in No541.)								Substances for confirmation of environmental load
_	Diantimony trioxide								Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Che
1	Cobalt and its compounds								Substances Substances for confirmation of environmental load
-	Formaldehyde								Class 2 substances according to the Ordinance on Prevention of Hazards due to Specified Ch
1	Perchlorates								Substances, Environmental load grasping substance California state law
+									Camornia state law
6	Organobromine compounds (except PBB, PBDE, HBCDD)								Substances for confirmation of environmental load
_	Polyvinyl chloride(PVC)								Substances for confirmation of environmental load
5	Red phosphorus								Measures to migration
1	Red phosphorus flame retardant (Report if it is used intentionally: For control )								Measures to migration
	Bisphenol A(BPA)								Health Canada
Dib	outyltin compounds Threshold: Content rate in a homogen	ous material	exceeding	0.1% by we	eight (1,000 ppm)	(The entry method is th	e same as shown in the examp	ole of entry in (1) RoHS rest	ricted substances.)
yo ).	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product (ppm)	Rate of Content in Homogeneous Material (ppm)	Containing Part	Intended Use	Remarks (If included, specify the reduction date and substitute Model No.)	Applicable Regulations
0	Dibutyltin compounds (if the tin content rate in a homogenous material exceeds 0.1% by weight)								Substances for confirmation of environmental load

(Parts and Materials)

SVHC Content Survey Sheet (Form12)
The following items including product name and company name shall be entered in 1) List & Reply Form (Form 6).

	81	, in the same of t					
<sanyo< td=""><td>Denki Item No.&gt;</td><td><product name=""></product></td><td></td><td>_</td><td>RoHS10 compatible (Y: yes, N: no)</td><td>No.</td><td></td></sanyo<>	Denki Item No.>	<product name=""></product>		_	RoHS10 compatible (Y: yes, N: no)	No.	
<produc< th=""><th>et Model No.&gt;</th><th><product mass:g="">⇒</product></th><th>0</th><th>g</th><th>0</th><th><entry date=""></entry></th><th></th></produc<>	et Model No.>	<product mass:g="">⇒</product>	0	g	0	<entry date=""></entry>	
ufac- rer	<company name=""></company>	<address></address>			<department name=""></department>		<tel></tel>
Manu tur	<name of="" person="" responsible=""></name>	<name charge="" in="" of="" person=""></name>			<e-mail></e-mail>		
omer	<company name=""></company>	<address></address>			<department name=""></department>		<tel></tel>
Custe	<name of="" person="" responsible=""></name>	<name charge="" in="" of="" person=""></name>			<e-mail></e-mail>		

Batch input button (presence/absence of all substances can be input at a time)⇒

Registration, Evaluation, Authorisation and Restriction of Chemicals SVHC (Substance of Very High Concern) "Contained" is defined as the content of the substance of 0.1 wt% or more of the mass of each component constituting the product.

Sanyo No.	Chemical Substance Name	CAS No.	EC No.	Inclusion Y: yes N: no	Content (mg)	Rate of Content in parts (ppm)	Containing Part	Intended Use	Remarks	Applicable Regulations
	1st SVHC 15 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	'.	
	2nd SVHC 13 substances	-	-		If containe	If contained, develop the details using the "+" button on the left for entry.				
	3rd SVHC 8 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	4th SVHC 8 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	5th SVHC 7 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	6th SVHC 20 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	7th SVHC 13 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	8th SVHC 54 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	9th SVHC 6 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	,	
	10th SVHC 7 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	',	
	11th SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	12th SVHC 6 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	13th SVHC 2 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	14th SVHC 5 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	15th SVHC 1 substance	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	16th SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	17th SVHC 1 substance	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	'.	
	18th SVHC 7 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	'.	
	19th SVHC 10 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	20th SVHC 6 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	21st SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	22nd SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	23rd SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	24th SVHC 2 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	'.	
	25th SVHC 8 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	26th SVHC 4 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'.</b>	
	27th SVHC 1 substance	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<b>'</b> .	
	28th SVHC 9 substance	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	29th SVHC 2 substance	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry	<i>'</i> .	
	30th SVHC 5 substances	-	-		If containe	ed, develo	the details using the "+" butt	on on the left for entry		
_	If SVHC other than the above is contained, write it into the following.	-	-	-	-	-	-	-	-	-
-										EU REACH regulation
-										EU REACH regulation EU REACH regulation

## **Prohibited substance containing report (Form 9)**

## \*If the prohibited substance is included, fill in and submit this sheet. This sheet needs not be submitted if no prohibited substance is included.

The following items including product name and company name shall be entered in 1) List & Reply Form (Form 6).

THE IOI	the following fields including product name and company name shall be effected in 1) List & Kepty Form (Form 6).							
<sanyo denki="" item="" no.=""></sanyo>		<product name=""></product>				No.		
<produc< th=""><th>et Model No.&gt;</th><th><product mass:g="">⇒</product></th><th></th><th>0</th><th>g</th><th><entry date=""></entry></th></produc<>	et Model No.>	<product mass:g="">⇒</product>		0	g	<entry date=""></entry>		
ufac- er	<company name=""></company>	<address></address>		<department name=""></department>	<tel></tel>			
Manı tur	<name of="" person="" responsible=""></name>	<name cha<="" in="" of="" person="" td=""><td colspan="2"><name charge="" in="" of="" person=""></name></td><td><e-mail></e-mail></td><td></td></name>	<name charge="" in="" of="" person=""></name>		<e-mail></e-mail>			
omer	<company name=""></company>	<address></address>		<department name=""> <tel></tel></department>				
Custo	<name of="" person="" responsible=""></name>	<name cha<="" in="" of="" person="" td=""><td colspan="2">Name of Person in Charge&gt;</td><td colspan="2"><e-mail></e-mail></td></name>	Name of Person in Charge>		<e-mail></e-mail>			

If you inputting data on an Excel sheet, values in the "Rate of Content in Product" column will be automatically calculated. You will only have to input data in green cells. If you are filling in a paper form, you will also need to enter data in the "Rate of Content in Product" column.

	Prohibited substances (Substances applicable to		ining gua		the threshold value of applicable			.,
anyo No.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product	Containing Part	Intended use (Intentional use or inclusion as impurity.)	Remarks (If included, specify the reduction date and substitute Model No.)	Applicable Regulations
	one layer protection related laws such as regulations on specifi CFC		(substances	(ppm) regulated #DIV/0!	under the Montreal Protocol)		,	Ozone layer protection laws
2	Halon			#DIV/0!				Ozone layer protection laws Ozone layer protection laws; Class 2 chemical substances according to the Law Concerning Examina
3	Carbon tetrachloride  1, 1, 1-trichloroethane (Another name: Methyl chloroform)			#DIV/0! #DIV/0!				Regulation of Manufacture and Handling of Chemical Substances; Ordinance on Prevention of Haza Specified Chemical Substances; Water Pollutio  Ozone layer protection laws, Water Pollution Control Law; Waste Disposal and Public Cleaning Law
	HCFC HBFC			#DIV/0!				Ozone layer protection laws Ozone layer protection laws
7	Methyl bromide (Another name: Bromomethane)			#DIV/0!				Ozone layer protection laws; Class 2 substances according to the Ordinance on Prevention of Hazard Specified Chemical Substances
2. Arti	Bromochloromethane  cle 55 of the Industrial Safety and Health Law (prohibition of	f production,	import, and					Ozone layer protection laws
	Yellow phosphorus match Benzidine and its salts			#DIV/0! #DIV/0!				Article 55 of the Industrial Safety and Health Law Article 55 of the Industrial Safety and Health Law; notification of carcinogenicity
18	4-aminodiphenyl and its salts (Another name: 4-biphenylamine)			#DIV/0!				Article 55 of the Industrial Safety and Health Law; notification of carcinogenicity
73 21	Asbestos 4-nitrobiphenyl and its salts			#DIV/0! #DIV/0!				Article 55 of the Industrial Safety and Health Law Article 55 of the Industrial Safety and Health Law
22	Bis(chloromethyl)ether β-naphthylamine and its salts			#DIV/0!				Article 55 of the Industrial Safety and Health Law; notification of carcinogenicity  Article 55 of the Industrial Safety and Health Law
180	Rubber paste containing benzene, in which the volume of benzene contained exceeds 5% of the solvent of the relevant rubber paste			#DIV/0!				Article 55 of the Industrial Safety and Health Law
	ss 1 & 2 chemical substances according to the Law Concernin PCB(polychlorinated biphenyl)	g Examinatio	on and Regu	llation of M #DIV/0!	Ianufacture and Handling of Chemical Sul	ostances		Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manu Handling of Chemical Substances; Class 1 substances according to the Ordinance on Prevention of I
111	Polychlorinated naphthalene			#DIV/0! #DIV/0!				to Specified Chemical Substances; Water P  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf
	(more than 2 chlorine atoms) Hexachlorobenzene			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf  Handling of Chemical Substances
	Aldrine Dieldrin			#DIV/0! #DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances
115	Endrine			#DIV/0! #DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf
117	DDT Chlordanes (Another name: Heptachlor)			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufathandling of Chemical Substances
	Bis(tributyltin)oxide N,N'-ditolyl-p-phenylenediamine,			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf
	N-tolyl-N'-xylyl-p-phenylenediamine and N,N'-dixylyl-p-phenylenediamine 2,4,6-tri-tert-butylphenol			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa
	Polychloro - 2, 2 - dimethyl - 3 - methylidene bicyclo [2, 2, 1] heptane (Another name: Toxaphene)			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
255	Dodecachloropentacyclo [5. 3. 0. 02, 6. 03, 9. 04, 8] decane (Another name: Mirex)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufi Handling of Chemical Substances
	2,2,2-trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol or 2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol (also known as kelthane or			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
287	dicofol) Hexachlorobuta-1, 3-Diene			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf- Handling of Chemical Substances
	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) Perfluorooctane sulfonate (PFOS) or its salts			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances
328	Erfluorooctane sulfonyl fluoride (PFOSF)			#DIV/0!				Class 1 chemical substances
330	Pentachlorobenzene r-1,c-2,t-3,c-4,t-5,t-6-hexachlorocyclohexane (i.e.,α-hexachlorocyclohexane)			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf Handling of Chemical Substances
331	r-1,t-2,c-3,t-4,c-5,t-6-hexachlorocyclohexane (i.e.,β-hexachlorocyclohexane)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
332	r-1,c-2,t-3,c-4,c-5,t-6-hexachlorocyclohexane (i.e.,γ-hexachlorocyclohexane)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
111	Decachloropentacyclo [5,3,0,2,60,3,90,4,80] decane-5-one (i.e., chlordecone)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
334 335	Hexabromobiphenyl Tetrabromo (phenoxybenzene)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufi- Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufi-
336	(i.e., tetrabromodiphenyl ether) Pentabromo (phenoxybenzene)			#DIV/0!				Handling of Chemical Substances  Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufi Handling of Chemical Substances
337	(i.e., pentabromodiphenyl ether)  Hexabromo (phenoxybenzene) (i.e., hexabromodiphenyl ether)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
338	Heptabromo (phenoxybenzene) (i.e., heptabromodiphenyl ether)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
481	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3-oxide; endosulfan			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
521	Hexabromocyclododecane(HBCDD) Pentachlorophenol and its salts and esters			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
	Polychlorinated normal paraffin (It is limited that the number of carbon is 10 to 13 and the content of chlorine is more than 48% of the total			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
11	weight.) 1,1'-Oxybis(2,3,4,5,6-pentabromobenzene) (synonym: Decabromodiphenyl ether)(PBDE)			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
	Perfluorooctanoic acid (Synonym: PFOA) or its salt Perfluoro(hexane-1-sulfonic acid) (also known as PFHxS) or			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances
589	perfluoro(akanesulfonic acid) (limited to those with a branched structure and six carbon atoms) or their salts			#DIV/0!				Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manuf- Handling of Chemical Substances
	Trichloroethylene(Another name: Trichlene)			#DIV/0!				Class 2 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances; Ordinance on the Prevention of Organic Solvent Poisoning; Water Control Law; Waste Disposal and Public Cle
	Tetrachloroethylene			#DIV/0!				Class 2 chemical substances according to the Law Concerning Examination and Regulation of Manufa Handling of Chemical Substances; Water Pollution Control Law; Waste Disposal and Public Cleaning Class 2 chemical substances according to the Law Concerning Examination and Regulation of Manufa
	Carbon tetrachloride Tributyl tins (TBTs), Triphenyl tins (TPTs)			#DIV/0! #DIV/0!				Class 2 chemical substances according to the Law Concerning Examination and Regulation of Manuf: Handling of Chemical Substances Class 2 chemical substances according to the Law Concerning Examination and Regulation of Manuf: Handling of Chemical Substances
	v Concerning Special Measures against Dioxins Dioxins							
	Polychlorodibenzofran (PCDF) Polychlorodibenzo-para-dioxin (PCDDs) Coplanar - polychlorinated biphenyl		X/ X/II	#DIV/0!				Dioxin regulations
62	Tris(2,3-dibromopropyl)phosphate	icais Annex	A VII, etc.	#DIV/0!				EU REACH regulation Annex X VII
197 245	Polychlorinated terphenyls(PCT)  Azo dye/pigment (azo dye/pigment that forms a specific amine)			#DIV/0!				EU REACH regulation Annex X VII EU REACH regulation Annex X VII
270	(only applicable to areas that may come in contact with the skin)  DBBT (monomethyl-dibromo-diphenylmethane)			#DIV/0!				German commodity goods ordinance EU REACH regulation Annex X VII
	Monomethyltetrachlorodiphenilmethane(Ugilec141)  Monomethyl-dichloro-diphenylmethane(Ugilec121,21)			#DIV/0! #DIV/0!				EU REACH regulation Annex X VII EU REACH regulation Annex X VII
274	Tris-aziridinyl phosphinoxide Asbestos			#DIV/0!				EU REACH regulation Annex X VII EU REACH regulation Annex X VII
	Trisubstituded organotin compounds			#DIV/0!				EU REACH regulation Annex X VII
342	2-(2-methoxyethoxy)ethanol (DEGME) (Prohibited only for legal purposes)			#DIV/0!				EU REACH regulation Annex X VII
	Cyclohexane (Limited to neoprene-based contact adhesives)			#DIV/0!				EU REACH regulation Annex X VII
340 341	Dibutyltin compound Dioctyltin compound (Prohibited only for legal purposes)			#DIV/0!				EU REACH regulation Annex X VII EU REACH regulation Annex X VII
292	(Describe the usage that is not specified in laws in Form 6.) Dimethyl Fumarate(DMF)			#DIV/0!				EU REACH regulation Annex X VII
57/1	Inorganic ammonium salts (Limited to cellulose insulation)			#DIV/0!				EU REACH regulation Annex XVII

Sanyo No.	Chemical Substance Name	Inclusion Y: yes N: no	Content (mg)	Rate of Content in Product (ppm)	Containing Part	Intended use (Intentional use or inclusion as impurity.)	Remarks (If included, specify the reduction date and substitute Model No.)	Applicable Regulations
	Polycyclic aromatic hydrocarbons							
531	(PAHs;Annex XVII substances)			#DIV/0!				EU REACH regulation Annex X VII
331	(Restricted to the resin parts which have direct contact with skin or			"DI 1/0.				To REMETI regulation minex is vii
587	oral cavity) C9-C14 PFCAs and its salts and PFCAs related substances			#DIV/0!				EU REACH regulation Annex X VII
	Cobalt chloride			#DIV/0!				European Council Directive (2003/34/EC)
291				#DIV/U:				European Council Directive (2003/34/EC)
522	Polychlorinated naphthalene (1 or more chlorine atoms)			#DIV/0!				EU POPs Annex I
6 I or	w on the Regulation of Nuclear Source Material, Nuclear Fuel	a Matarial an	d Dogotona					
	Radioactive substances	s Material an	d Reactors	#DIV/0!				Law on the regulation of nuclear reactors, etc.
		isan ang Cuba	40,000	#DIV/0:				Law on the regulation of indefeat feactors, etc.
	sonous and Deleterious Substances Control Law (Specified Po	oisonous Subs	tances)	//DIV/04				D: 1D1// 01// 02/17
275	Octamethyl-pyrophosphoramide (Another name: Schradan)			#DIV/0!				Poisonous and Deleterious Substances Control Law
276	Tetraalkyl lead (Another name: Tetramix)			#DIV/0!				Poisonous and Deleterious Substances Control Law
277	Diethylparanitrophenilthiophosphate			#DIV/0!				Poisonous and Deleterious Substances Control Law
	(Another name: Parathion)  Dimethylethylmercapto. ethylthiophosphate							
278	(Another name: Demeton-methyl)			#DIV/0!				Poisonous and Deleterious Substances Control Law
279	Dimethil-(diethylamido-1-chlorocrotonyl)-phosphate			#DIV/0!				Poisonous and Deleterious Substances Control Law
219	(Another name: Phosphamidon)			#D1V/U!				Poisonous and Deleterious Substances Control Law
280	Dimethylparanitrophenilthiophosphate			#DIV/0!				Poisonous and Deleterious Substances Control Law
201	(Another name: Parathion-methyl)			#DIV/0!				Poisonous and Deleterious Substances Control Law
281	Tetraethylpyrophosphate (Another name: TEPP)							
282	Monofluoroacetate (Another name: Fluoroacetic acid)			#DIV/0!				Poisonous and Deleterious Substances Control Law
283	Monofluoroacetamide (Another name: Fluoroacetamide)			#DIV/0!				Poisonous and Deleterious Substances Control Law
284	Salts of monofluoroacetate			#DIV/0!				Poisonous and Deleterious Substances Control Law
	Alminium phosphate			#DIV/0!				Poisonous and Deleterious Substances Control Law
	cific chlorinated flame retardants(Vermont Statutes)							
	Tris(2-chloroethyl)phosphate			#DIV/0!				Specific chlorinated flame retardants(Vermont Statutes)
	Tris(2-chloro-1-methylethyl)phosphate			#DIV/0!				Specific chlorinated flame retardants(Vermont Statutes)
	Tris(1,3-dichloro-2-propyl)phosphate			#DIV/0!				Specific chlorinated flame retardants(Vermont Statutes)
9.Five	PBT substances under TSCA regulation							Transport of the state of the s
11	Decabromodiphenyl Ether (DecaBDE)			#DIV/0!				TSCA(USA), Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances
253	2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)			#DIV/0!				TSCA(USA), Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances
287	Hexachlorobutadiene (HCBD)			#DIV/0!				TSCA(USA),Class 1 chemical substances according to the Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances
573	Phenol, Isopropylated Phosphate (3:1) (PIP 3:1)			#DIV/0!				TSCA(USA)
574	Pentachlorothiophenol (PCTP)			#DIV/0!				TSCA(USA)
10. Pa	ickaging and packaging waste directive (94/62/EC) (Apply the	material to pa	ck the produ	ucts shipped	by Sanyo Denki)			
	Lead, mercury, cadmium, and hexavalent chromium contained	1						
485	in the package or packaging component (threshold: total			#DIV/0!				Packaging and packaging waste directive (94/62/EC)
	100ppm)							

Date	
Daic.	

(Parts and Materials)Form14

# Guarantee of conforming to hazardous substances restricted by RoHS Directive and non-containing guarantee of prohibited substances

(Lead-free Metals Version) Ver.A

We hereby declare that the following product sold to your company does not contain 6(a)-I, 6(b)-II, or 6(C) of the exemptions listed in Annex III to Directive 2011/65/EU and conforms with the allowable values specified in the provisions specified in Article 2. The exceptions of the substances other than 6(a)-I, 6(b)-II, or 6(C) shall be permitted.

In addition, we guarantee that the substances prohibited in Item 4 are not contained.

-	_	_	
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	Pro	MIII	٠.

Product Name:	
Product Model No.:	
Sanyo Denki Item No.:	
RoHS Exemption No.:	

## 2. Hazardous Substances Controlled by the RoHS Directive (2011/65/EU,(EU)2015/863) and allowable impurity limits: ANNEX II

Hazardous Substances	<b>Allowable Impurity Limits</b>
1) Cadmium (Cd)	100 ppm
2) Lead (Pb)	1000 ppm
however, lead in the cable coating is 300 ppm	
(US Regulation of the proposition 65)	
3) Hexavalent chromium (Cr6+)	1000 ppm
4) Mercury (Hg)	1000 ppm
5) PBB (Polybrominated biphenyls)	1000 ppm
6) PBDE (Polybrominated diphenyl ethers)	1000 ppm
7) DEHP (Bis(2-ethylhexyl) phthalate)	1000 ppm
8) BBP (Butyl benzyl phthalate)	1000 ppm
9) DBP (Dibutyl phthalate)	1000 ppm
10) DIBP (Diisobutyl phthalate)	1000 ppm

<sup>\*</sup> Each of the contents is expressed in rate of the content (in mass rate) in **each homogeneous material** existing in the area in question.

**3.** Verification Data of Contained Hazardous Substances Based on RoHS Directives (2011/65/EU) Measured data such as the ICP and GC/MS of the above mentioned product is as shown in the attached sheet.

#### 4.Prohibited substances (Substances applicable to non-containing guarantee)

Substances prohibited to use by domestic or foreign regulations.

The applicable prohibited substances are specified in the prohibited substance containing report (Form 9i).

Name of Supplier:	
Department in Charge:	
Approved by (print the name):	
(Signature):	
Prepared by (print the name):	
(Signature):	

Date:

(Parts and Materials)Form7

If submission of the RoHS Guarantee Ver.A (Form 14) is impossible, submit the Guarantee Ver.B (Form 7).

# Guarantee of conforming to hazardous substances restricted by RoHS Directive and non-containing guarantee of prohibited substances

(for Products with Metals in which Lead 6(a)-I, 6(b)-I, 6(b)-II, or 6(C) is Used ) Ver.B

We hereby declare that the following product sold to your company complies with the allowable values specified in the provision specified in Article 2 and none of the prohibited substances in Article 4 are contained in the product. The exceptions specified in 2011/65/EU Annex III shall be permitted.

#### 1. Product

Product Name:
Product Model No.:
Sanyo Denki Item No.:
RoHS Exemption No.:
The plan to eliminate lead from the metals (1,000 ppm or less) is given in Remarks
of the questionnaire (Form 6).

## 2. Hazardous Substances Controlled by the RoHS Directive (2011/65/EU,(EU)2015/863) and allowable impurity limits: ANNEX II

Hazardous Substances	<b>Allowable Impurity Limits</b>
1) Cadmium (Cd)	100 ppm
2) Lead (Pb)	1000 ppm
however, lead in the cable coating is 300 ppm	
(US Regulation of the proposition 65)	
3) Hexavalent chromium (Cr6+)	1000 ppm
4) Mercury (Hg)	1000 ppm
5) PBB (Polybrominated biphenyls)	1000 ppm
6) PBDE (Polybrominated diphenyl ethers)	1000 ppm
7) DEHP (Bis(2-ethylhexyl) phthalate)	1000 ppm
8) BBP (Butyl benzyl phthalate)	1000 ppm
9) DBP (Dibutyl phthalate)	1000 ppm
10) DIBP (Diisobutyl phthalate)	1000 ppm

<sup>\*</sup> Each of the contents is expressed in rate of the content (in mass rate) in **each homogeneous material** existing in the area in question.

**3.** Verification Data of Contained Hazardous Substances Based on RoHS Directives (2011/65/EU) Measured data such as the ICP and GC/MS of the above mentioned product is as shown in the attached sheet.

#### 4.Prohibited substances (Substances applicable to non-containing guarantee)

Substances prohibited to use by domestic or foreign regulations.

The applicable prohibited substances are specified in the prohibited substance containing report (Form 9i).

Name of Supplier:
Department in Charge:
Approved by (print the name):
(Signature):
Prepared by (print the name):
(Signature):

### Revision history

Version No.	Revision date	Major contents of revision
Initial	August 2005	Established
version 2.0	November 2006	Added "specified poisonous substances" of Poisonous and Deleterious Substances Control Law to prohibited substances
2.0	1 to temper 2000	Added 2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol to prohibited substances (Class 1 Specified Chemical Substances in the Chemical
		Substance Control Law)
		Added hexachloro-1,3-butadiene to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Changed pentachlorophenol (alias PCP) or its sodium salt from a control substance to prohibited substances
3.0	December 2009	Corrected the threshold value of cadmium from 75 to 100 ppm
		Added 2-(2H-1,2,3-Benzotriazole-2-yl)-4,6-di-tert-butylphenol to prohibited substances (Class 1 Specified Chemical Substances in the Chemical
		Substance Control Law)
		Added asbestos to prohibited substances (76/769/EEC)
		Added PFOS (Perfluorooctanesulfonic acid and its salt) to prohibited substances (2006/122/EC)
		Added cobalt chloride to prohibited substances (2003/34/EC)
		Added dimethyl fumarate (DMF) to prohibited substances (2009/251/EC)
2.1	March 2010	Changed SVHC (substances of very high concern) of REACH regulation to control substances
3.1	March 2010  May 2010	Added the second substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added perfluoro(octane-1-sulfonic acid) (alias PFOS) or its salt to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance
3.2	Way 2010	Control Law)
		Added perfluoro(octane-1-sulfonyl)=fluoride (alias PFOSF) to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance
		Control Law)
		Added pentachlorobenzene to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added α-hexachlorocyclohexane to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added β-hexachlorocyclohexane to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added γ-hexachlorocyclohexane to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added chlordecone to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added hexabromobiphenyl to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added pentabromodiphenyl ether to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added hexabromodiphenyl ether to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added heptabromodiphenyl ether to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
3.3	October 2010	Added the third substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added Tri-substituted organostannic compounds to control substances (Annex XVII of REACH regulation)
		Added dibutyltin compounds to control substances (Annex XVII of REACH regulation)
		Added dioctyltin compounds to control substances (Annex XVII of REACH regulation)
		Added 2-(2-methoxyethoxy)ethanol (DEGME) to control substances (Annex XVII of REACH regulation)
3.4	February 2011	Added cyclohexane to control substances (Annex XVII of REACH regulation)  Added the fourth substances of SVHC (substances of very high concern) of REACH regulation to control substances
3.4	reditary 2011	Changed Annex XVII of REACH regulation to prohibited substances
3.5	August 2011	Added the fifth substances of SVHC (substances of very high concern) of REACH regulation to control substances
3.6	February 2012	Added the sixth substances of SVHC (substances of very high concern) of REACH regulation to control substances
	,	Changed dibutyltin compounds and dioctyltin compounds to prohibited substances
3.7	October 2012	Added the seventh substances of SVHC (substances of very high concern) of REACH regulation to control substances
4.0	March 2013	Added the eighth substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added red phosphorus to control substances (Measures to migration)
		Modification according to RoHS2 (2011/65/EU)
4.1	January 2014	Added the ninth and tenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added endosulfan to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added hexabromocyclododecane (HBCDD) to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
		Added PFOA to prohibited substances (Norwegian regulations)
		Added ionizing radiation to prohibited substances (Carcinogenic substances (Group 1) of Japan Society for Occupational Health)
		Added the specified chlorine-based flame retardant to prohibited substances (Vermont state law)
		Added indium compounds, ethylbenzene, propylene oxide, 1,1-dimethylhydrazine, and nickel compounds to control substances
4.2	September 2014	Added the eleventh substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added BNST to prohibited substances (Prohibition of Certain Toxic Substances Regulations in Canada)
4.2	Mr 1 0015	Request for submission of AIS data  Added the twelfth substances of SVIIC (substances of very high concern) of REACII regulation to control substances
4.3	March 2015	Added the twelfth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added the RoHS additional 4 candidate substances to control substances
		Added the RoHS additional 4 candidate substances to control substances  Added 1.2 dichloropropage DDVP chloroform styrage acethylane tetrachloride and methyl isobutyl ketone to control substances
		Added 1,2-dichloropropane, DDVP, chloroform, styrene, acethylene tetrachloride, and methyl isobutyl ketone to control substances (Group 2 of the Specified Chemicals Ordinance)
5.0	November 2015	Added the thirteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
٥.٠	110 vehicel 2013	Added naphthalene and refractory ceramic fiber to control substances (Group 2 of the Specified Chemicals Ordinance)
J		Changed 4 substances of phthalic ester of RoHS to prohibited substances
		- sacramecs of primate coor of Notice to promotion sucremes
		New establishment of certificate of 4 substances of phthalic ester of RoHS
5.1	September 2016	New establishment of certificate of 4 substances of phthalic ester of RoHS  Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
5.1	September 2016	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
5.1	September 2016	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)
5.1	September 2016	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Corrected the number of chlorine atoms of polychlorinated naphthalene to 2 or more (Class 1 Specified Chemical Substances in the Chemical Substance
5.1	September 2016	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Corrected the number of chlorine atoms of polychlorinated naphthalene to 2 or more (Class 1 Specified Chemical Substances in the Chemical Substance  Control Law)
5.1	September 2016	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Corrected the number of chlorine atoms of polychlorinated naphthalene to 2 or more (Class 1 Specified Chemical Substances in the Chemical Substance  Control Law)  Added polychlorinated naphthalene (1 or more chlorine atoms) to prohibited substances (POPs regulation)
5.1	September 2016  March 2017	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Corrected the number of chlorine atoms of polychlorinated naphthalene to 2 or more (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Added polychlorinated naphthalene (1 or more chlorine atoms) to prohibited substances (POPs regulation)  Added inorganic ammonium salt to prohibited substances (Annex XVII of REACH regulation)
	•	Added the fourteenth and fifteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances  Added pentachlorophenol or its salt or ester to prohibited substances (Class 1 Specified Chemical Substances in the Chemical Substance Control Law)  Corrected the number of chlorine atoms of polychlorinated naphthalene to 2 or more (Class 1 Specified Chemical Substances in the Chemical Substance  Control Law)  Added polychlorinated naphthalene (1 or more chlorine atoms) to prohibited substances (POPs regulation)

### Revision history

Version No.	Revision date	Major contents of revision
5.3	February 2018	Added the seventeenth and eighteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added perfluorooctanoic acid (PFOA) to prohibited substances (Annex XVII of REACH regulation)
		Added diantimony trioxide to control substances (Group 2 of the Specified Chemicals Ordinance)
		Correction of RoHS exempt use
5.4	November 2018	Added the nineteenth substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Description of polychlorinated normal paraffin as Class I specified chemical substance of Chemical Substances Control Law
5.5		Description of decabromodiphenyl ether (PBDE) as Class I specified chemical substance of Chemical Substances Control Law
		Abolition of AIS and request for submission of chemSHERPA data
		Correction of RoHS exempt use
	September 2019	Added the 20th and 21th substances of SVHC (substances of very high concern) of REACH regulation to control substances
5.5	September 2019	Correction of RoHS exempt use
		Guarantee of conforming to additional restricted Phthalate 4 substances by RoHS Directive is abolished and RoHS Directive and non-containing guarantee
		of prohibited substances is integrated into 10 substances
5.6	April 2020	Added the 22th substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Changed the denominator of the SVHC content to the mass of each product, which consists of the masses of the products
		Corrections and additions of RoHS exempt use
		Excluded BNST from the banned substances (the applicable law was repealed)
		Added a form for lead-free metals to the RoHS declaration forms (Form 14)
		Added an area to add information regarding the elimination plan for use that falls under the exceptions recognized by the RoHS Directive (Form 6)
5.7	March 2021	Added the 23th and 24th substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Added POPs Convention (Appendix A) and TSCA to prohibited substances
		Added "Rate of Content in parts" column to SVHC questionnaire
		Added batch input buttons to the survey form and report
		Deleted Class II Specified Chemical Substances in the Specified Chemical Ordinance and substances specified by the Water Pollution Prevention Act from the controlled substances
		Correction of RoHS exempt use
5.8	March 2022	Added the 25th and 26th substances of SVHC (substances of very high concern) of REACH regulation to control substances
5.0		Transfer of PFOA and dicofol from Stockholm Convention on POPs to Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
		Deletion of PFOA from Annex XVII to REACH Regulation
		Addition of PFCAs to non-containing guarantee target substances in Annex XVII to REACH Regulation
		Transfer of five PBT substances under TSCA regulation to non-containing guarantee target substances
		Deletion of thallium, tellurium, bismuth, chromium compound and beryllium oxide from controlled substances
5.0	Mauch 2022	Correction of RoHS exempt use  Added the 27th and 28th substances of SVHC (substances of very high concern) of REACH regulation to control substances
5.9	March 2023	Banned amosite and crocidolite changed to asbestos
		Added POPs Convention (Appendix A): PFHxS to prohibited substances
		Added US Toxic Substances Control Act (TSCA): LCPFACs to prohibited substances
		Pentachlorophenol and Chlorinatedparaffins(C10-13), which are REACH banned substances, are integrated into the Chemical Substances Control Law
		Added French Law 2020-105 relating to the fight against waste and the circular economy: MOAH to prohibited substances
		Correction of RoHS exempt use
6.0	March 2024	Added the 29th and 30th substances of SVHC (substances of very high concern) of REACH regulation to control substances
		Transfer of PFHxS from Stockholm Convention on POPs to Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
		Addition of methoxychlor, dechloranplus, and UV-328 to the POPs Convention (Annex A)  Added red phosphorus flame retardant to controlled substances (other)
		Deletion of DBB (di-µ-oxo-di-n-butylstanniohydroxyborane) from Annex XVII to REACH Regulation
		Added French Law 2020-105 relating to the fight against waste and the circular economy: MOSH to prohibited substances
		Correction of RoHS exempt use