

Hirose Electric Group

Green Procurement Guideline

18th Edition

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Hirose Electric Co., Ltd.

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1. Purpose

Hirose Electric Co., Ltd., is promoting environment conservation activities and biodiversity conservation activities based on the basic policy of the environment and promotes the procurement of parts, material, and raw materials with low environmental load (hereafter, green procurement) as part of these activities.

Furthermore, to comply with related domestic and overseas laws and regulations, management of chemical substances covering raw materials and products is required. For this purpose, the cooperation of suppliers and raw material manufacturers is necessary, and it is mandatory that the requirements stated later in the Guidelines be satisfied.

To promote green procurement, the Guidelines aim to define the requirements to the suppliers and preferentially procure products from the suppliers who satisfy the requirements, and the list is provided for that purpose stating the requirements to the suppliers and the prohibited substances and the controlled substances of Hirose Electric.

It should be noted that, when the requirements are not satisfied, future transactions may be held off.

Also, the requirements to the suppliers and the prohibited substances and the controlled substances of Hirose Electric are subject to change according to the status of the future laws and regulations and social trends.

Hirose Electric Basic Environmental Policy

As is fitting for a company whose slogan is "A Small Company Connecting Wisdom" the Hirose Electric Group recognizes the importance of preserving the global environment as one of the basic business challenges associated with its global ambitions. We will therefore promote corporate activities that give full consideration to conservation of the environment and biodiversity.

Connectors, which are our main products, help to save energy because their detachability enhances the users' productivity and facilitates transportation of their products. They are used in environmentally friendly products, such as electric vehicles and LED lights. Through the utilization of our connectors, we will contribute to the realization of a low-carbon society, preservation of the environment, and conservation of biodiversity.

Recognizing that in an endeavor to preserve the environment it is important to adopt environmental management that both is effective and conforms to the relevant environmental management system standards. Hirose Electric and its group companies are committed to conforming to the international standard ISO 14001 and are implementing the following environmental protection activities.

- 1. We will ensure that we understand the conditions surrounding our company, the needs of our stakeholders, and the impact of our activities and products on the environment.

 Based on these fi ndings, we will identify what we must do to protect the environment, ensure that we meet our conformance obligations, and determine the risks and opportunities associated with undertaking such activities. We will promote environmental protection and prevention of pollution by planning and implementing our activities accordingly.
- 2. We will comply with environment-related laws, regulations, ordinances, and external requirements that we subscribe to.
- ${\it 3.} \quad {\it We will promote the following activities as priorities in our business activities:}$
 - · Design, production, and marketing of products those are environmentally friendly
 - Promotion of energy conservation through eff ective utilization of resources, streamlining of operations and reduction of waste
 - Promotion of reduction of industrial waste such as metal chips and waste plastic, and promotion of recycling and reuse through segregation.
- 4. We will provide in-company training on preservation of the environment and conservation of biodiversity, and raise the awareness of, support, and ask for cooperation from our business partners and clients.
- 5. We will continuously improve our environment management system in order to enhance the results that our environmental preservation activities will deliver

May 18, 2023

- 2. Scope
- 1) This Guideline applies to suppliers (suppliers and subcontractors of articles).
- 2) This Guideline applies to the following items purchased by Hirose Electric Group.
- ①Articles that comprise the Hirose Electric products, all articles that are delivered (including those that are likely to be delivered) to customers of Hirose Electric along with the Hirose Electric products, and sub-materials used for the above-stated articles.

(Examples)

- · Raw materials
- · Adhesive agents, lubricants, solder
- Flux
- · Paints, inks
- · Cleaning agents, release agents, processing solvents
- · Piece parts, units
- · OEM products
- · Jigs and tools (to be sold to customers)
- · Attachments to products including Operating Instruction Manual
- Wrapping materials, packing materials (including inks of prints on the materials, glues, and staplers)
- Indication labels (labels that are attached to products and labels that are attached to packing materials to be delivered to customers)
- ②Packing materials that are not delivered to Hirose Electric customers

 Packing materials that are used for transportation and protection of articles delivered to
 Hirose Electric (including inks of prints on the materials, glues, and staplers).
- ③Articles that exist at the assembly sites of the products and the piece parts manufacturing sites of Hirose Electric that are in contact with or possibly in contact with the piece parts. (Examples)
 - ·Writing instruments, gloves, finger stalls, etc., brought into the manufacturing sites.

4 Manufacturing equipment

Equipment used for manufacturing products and piece parts of Hirose Electric that are in contact with or possibly in contact with the piece parts.

3. Operation

- 1) Operation for individual products, etc., shall be done by completely observing the necessary requirements of treaties, laws, ordinances, industrial guidelines, and others. The Guidelines shall also be observed, since chemical substances are stipulated based on major laws and regulations, and do not cover all the substances.
- 2) Information of chemical substances to be submitted shall basically follow this Guideline, but this will not be applied when different operation needs to be made as requested by the department of Hirose Electric.
- 3) Concerning Exhibits 1 to 5, the forms may be different from those that will be actually requested by Hirose Electric and those that are stipulated by the Guidelines as a result of version upgrades. If this is the case, the forms that are actually requested by Hirose Electric shall take precedence.

4. Definition of Terms Used

1) JAMP

The Joint Article Management Promotion-consortium (JAMP) is a conference that establishes and disseminates specific tools to adequately manage information on chemical substances contained in articles (other name of piece parts, molded parts, etc.) and to efficiently disclose and deliver the information.

At present, the following tools are provided:

- · Guidelines for the Management of Chemical Substances in Products
- MSDSPlus, Article Information Sheet (AIS)
- · chemSHERPA
- · List of Controlled Substances [JAMP chemSHERPA Controlled Substances]

The above-stated tools are available from https://chemsherpa.net/

☆ When obtaining the above-stated tools, be sure to obtain the information on interpretation and how to fill in the framework at the same time. (They can be obtained from the General Menu).

2) Guidelines for the Management of Chemical Substances in Products

This is one of the tools provided by JAMP. The Guidelines summarize the management points of chemical products for organizations in order to assure that the provision and reception of information on chemical substances contained are adequate and secured.

3) Guidelines for the Management of Chemicals in Products Check Sheet

This check sheet is provided together with the Guidelines for the Management of Chemical Substances in Products and is taken along with the requirements of the Guidelines.

4) MSDSPlus, Article Information Sheet (AIS)

This is one of the tools provided by JAMP which is used to deliver information on chemical substances, etc., contained in chemical substances, preparations and article.

Be sure to use the latest version available on the URL from which you obtain the information.

5) Inclusion

The term implies that, whether it is intentional or not, a substance is contained as an ingredient or content in an article that is stipulated in the Scope. It includes cases where the substance is unintentionally mixed in or attached to a product in the manufacturing process.

6) Intentional Adding

Intentional Adding is defined as the inclusion of a chemical substance in a part or r aw material, regardless of whether or not it is below the regulated value, with the r ecognition of its inclusion.

If the inclusion or adhesion of "the chemical substances unintentionally generated in the manufacturing process" (by-products) is recognized, it shall be regarded as Intentional Adding..

7) Inclusion except for intentional adding

Inclusion/adhesion other than "Intentional Adding" as described above Cases such as the following

A case in which the inclusion of the substance in a natural material cannot be k nown even by appropriate investigation.

A case in which the substance is unintentionally mixed in or adhered to the product despite appropriate management in the manufacturing process.

8) Use

The term implies that, whether the substance is included in the article stipulated in the Scope or not, the substance in question, or a cleaning agent, a processing solvent, etc., that contain the substance in question is used.

9) Prohibited substance

The term refers to chemical substances that are prohibited for inclusion in articles and for use in the manufacturing process as stipulated in the Scope.

Level 1: To be prohibited immediately

Level 2: Use of new parts and materials that contain such substance is prohibited. Use of such parts and materials currently in use shall be phased out by the specified time.

10) JAMP Controlled Substances

The term refers to the List of Controlled Substances [JAMP chemSHERPA Controlled Substances] as provided by JAMP. In the Guidelines, the term implies the latest version of the List of Controlled Substances [JAMP chemSHERPA Controlled Substances] provided by JAMP.

11) Controlled substance

The term refers to the chemical substances to be controlled regarding their inclusion in articles as stipulated. The controlled substances shall be those that are obtained by excluding the prohibited substances from JAMP Controlled Substances

12) Substances prohibited in manufacturing process

The term refers to the chemical substances that are prohibited for use in the manufacturing process, whether they are contained in articles stipulated in the Scope or not.

Deleted. Integrated into 9) prohibited substances

13) CAS Registry Number

A number used to identify a chemical substance

It is assigned by the Chemical Abstracts Service (CAS), an information organization of the American Chemical Society.

Example • Lead 7439-92-1 • Copper 7440-50-8 • Gold 7440-57-5 • Red Phosphorus 7723-14 0 • Bis (DEHP) phthalate 117-81-7

14) Homogeneous material

The term refers to a material that cannot be mechanically decomposed into different materials. For example, for a case where three layers of plating, copper, nickel, and gold are plated on the base material (single metal), it can be assumed that the part is configured with four homogeneous materials made up with the homogeneous materials consisting of plating layers (3) and the base material (1). As for details, refer to the definition of terms in the "Creation Procedures of AIS" provided by JAMP.

15) SDS

SDS is the safety data sheet that fulfills the Act on Confirmation, etc., of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof, Poisonous and Deleterious Substances Control Act and the Industrial Safety and Health Act. The SDS is an information sheet concerning the properties and handling of the object substances.

16) Mill sheet

The term refers to the inspection certificate of metallic materials.

17) IMDS

The IMDS (International Material Data System) is the system for collecting information on substances of environmental concern, which is the universal automotive industry standard.

- 5. Requirements to Supplier
- 1) Establishment of Environmental Management System
 - The supplier shall have established systems such as the Environmental Management System (ISO 14001).
 - Alternatively, the supplier shall be in a process of establishing such system under the acquisition plan.
 - ②The supplier shall have executed the following actions concerning the environmental preservation:
 - Establishment of the environment management promotion organization such as the environment task force;
 - ·Positioning and definition of functions of the above-stated promotion organization;
 - ·Participation of top management with the above-stated organization;
 - •The supplier shall not have received any guidance or punishment from the control authorities concerned in the past five years;

(If a guidance or penalty is received, it shall be communicated to Hirose Electric.)

- Implementation of education for employees on chemical substance management, environmental conservation, and biodiversity conservation, and confirmation and recording of its effectiveness;
- ·Energy-saving promotion activities;
- •Observation of environment-related laws and regulations including the Air Pollution Control Law and the Water Pollution Control Law;
- · Proactive activities for reduction and recycling of waste;
- · Employment of used paper for the paper in packaging materials as much as possible; and
- Promote supply chain management that considers biodiversity while striving for environmental conservation
- 3The Exhibit 5: Form of Supplier Environmental Conservation System Assessment List shall be submitted.
- 2) Ensure to fulfill the requirements of prohibited substances by quality control system.
 - The requirements regarding the prohibited substances in products must be explicitly included in the products requirements of the established quality control system.
 - ②With respect to the prohibited substances, in each process of design and developmen t, purchasing, and production and service provision, all required matters are decided, implemented, and recorded in compliance with ISO9001 standards.
- 3) Establishing a system to inform correctly of chemical substances contained in products.
 - ①A survey system for reportable products must be established based on information traced back to raw material manufacturers.
 - ② Chemical substance management shall be executed according to the JAMP Guidelines for the Management of Chemical Substances in Products.
 - To be accepted according to JAMP "Guidelines for the Management of Chemicals in Products Check Sheet"

Acceptance criteria: No nonconformity shall be found after item 5.4.

Additionally, submission of the corrective action plan shall be complete for the items that are provisionally accepted.

6. Request for submission of chemical substance information for the purchased articles Hirose Electric will separately request submission of the information of the following chemical substance for advance confirmation of new articles adopted or for confirmation of purchased articles, and it is appreciated that the suppliers promptly submit the response when such request is made.

In the List of Documents to be submitted below,

those referred with (Exhibit XX) shall use the format of Hirose Electric,

those referred with (JAMP) shall use the format of JAMP,

and those without any reference may use any format.

- 1) List of Documents to be submitted
- a) When the article is under the categories of chemical substance and preparations in Tab le 1 below
 - (I)Guarantee of Prohibited Substances (Exhibit 3)
 - ②Form of research on Halogens (Exhibit 4)
 - ③ chemSHERPA-CI (JAMP) (Note7)
 - **4**Form of Chemical substance composition(Exhibit 2)
 - ⑤SDS (Note 1 & Note 2), and High-precision Analysis Data of Ten Substances designated by the RoHS Directive (Note 2 & Note 3)
 - 6 Guidelines for the Management of Chemicals in Products Check Sheet (JAMP) (Note 4 & Note 5)

- Tevaluation List of Environmental Preservation at Suppliers (Exhibit 5) (Note 4)
- b) When the article is under the category of an Article (other name of piece parts and mo lded parts) in Table 1 below.
 - ①Guarantee of Prohibited Substances (Exhibit 3)
 - ②Form of research on Halogens (Exhibit 4)
 - ③chemSHERPA-AI in which total ingredients constitute 100% (JAMP)
 When the requirement of 100% above cannot be fulfilled;
 chemSHERPA-AI (JAMP) + Form of Chemical substance composition(Exhibit 2)
 - (4) Configuration Table (Exhibit 1) (Note 6)
 - ⑤SDS (Note 1 & Note 2) of each raw material and High-precision Analysis Data of Te n Substances designated by the RoHS Directive (Note 2 & Note 3)
 - © Guidelines for the Management of Chemicals in Products Check Sheet (JAMP) (Note 4 & Note 5)
 - © Evaluation List of Environmental Preservation at Suppliers (Exhibit 5) Note 4
- Note 1) When preparation of the SDS by the manufacturer of the raw material is not reg ulatorily required and submission is impossible, the Table of Ingredients issued by the manufacturer shall be submitted.
- Note 2) To be submitted in English, if possible both in English and Japanese.
- Note 3) Analysis data produced within one year as a rule and details of analysis method (Pretreatment method/analysis method, description of total dissolution of the sample, analysis flowchart) shall be also submitted. In case of a metal, data for PBB and PBDE may be omitted.
- Note 4) These documents are required only when a new transaction is made or when spe cifically requested.
- Note 5) Acceptance in the evaluation of the Guidelines for the Management of Chemicals in Products Check Sheet is required for a new transaction. <see Paragraph 5.3) E stablishing a system to inform correctly of chemical substances contained in product s ③>
- Note 6) Only required for the material consisting of multiple homogeneous materials.

Table 1

Category	Chemical Substance/Prepared	Article (other name of piece parts,	
- and gary	Drug	molded parts, etc.)	
Metals	Solder	Metallic materials (plate material, rod	
	Solder	stock, wire rods)	
	Ingot (casting material)	Metallic parts (screws, stamped articles,	
	Ingot (casting material)	cast parts, etc.)	
	Welding rod	Plating	
Resins	Resin for molding (pellet,	Moldad regin moldad narta	
	monomer before being cured)	Molded resin, molded parts	
	Adhesive agent	Resin film	
Others	Grease, oil, gases	Paper	
	Simple element or compound	Battery, electric wire	
	and its mixture	Electronic parts (PCB, connectors, etc.)	
	Lead oxide, ink, paint, etc.	Unit, OEM product, jigs and tools, etc.	

- ★The booklet Guide of Submitted Documents for Each Delivered Product shall be referenced, which describes the data to be submitted based on the example of delivered articles. (However, the booklet Guide of Submitted Documents for Each Delivered Product is not a part of this Guideline.)
- 2) Precautions for Form of Chemical substance composition(Exhibit 2), chemSHERPA, Configuration Table, and SDS
 - a) Common Precautions for Form of Chemical substance composition(Exhibit 2) and chemSHERPA

The chemical substances to be reported shall be all substances stated in the "JAMP chemSHERPA Controlled Substances."

b) Precautions for Preparing chemSHERPA-CI

A case where a substance to be controlled is contained and the substance in question is likely to vaporize and react under general operating conditions shall be stated in the Remarks for the substance on the chemSHERPA-CI.

- c) Precautions for Preparing Form of Chemical substance composition(Exhibit 2) (Note 4)
 - •The answer shall be made in a manner that all ingredients including a case where the drug composition includes substances exempted from the JAMP chemSHERPA Controlled Substances shall be stated so that the total rate of content will be 100%.
 - ·If the ingredients cannot be disclosed by necessity, for a case where the drug contains the substances prohibited by Hirose Electric or the JAMP chemSHERPA Controlled Substances, disclosure of the ingredients shall be mandatory. For other ingredients, the 10% rule of IMDS (substances not disclosed should be 10% or less) may apply.
 - Note 4) When can be accessed via the IMDS (Hirose Electric User ID 23616), preparation of this document is not required by reporting the IMDS number. (This procedure may not be used depending on the location, and shall be confirmed before submission.)
 - •If volatilization or chemical reaction occurs, describe the substances after drying and reaction as much as possible.

d) Precautions for Preparing chemSHERPA-AI and AIS

- •The AIS shall be prepared for each homogeneous material.
- •The answer shall be made in a manner that all ingredients including a case where the drug composition includes substances exempted from the JAMP chemSHERPA Controlled Substances shall be stated so that the total rate of content will be 100%.
- •If the ingredients cannot be disclosed by necessity, for a case where the drug contains the substances prohibited by Hirose Electric or the JAMP chemSHERPA Controlled Substances, disclosure of the ingredients shall be mandatory. For other ingredients, the 10% rule of IMDS (substances not disclosed should be 10% or less) may apply.
- •All ingredients, including substances that are not controlled in JAMP, shall be stated so that the total contents should become 100%..
- When the requirement of 100% contents above is not met, the Form of Chemical substance composition(Exhibit 2) under above c) shall be submitted additionally.

e) Precautions for Preparing Configuration Table

- •The configuration table shall be prepared when the article to be investigated comprises multiple homogeneous materials.
- SDS and High-precision analysis data of homogeneous material should be attached for each homogeneous material.
- •The configuration table shall not be prepared when the article to be investigated comprises a simple homogeneous material.

f) Precautions on SDS

•Requirements in the PRTR Act, Poisonous and Deleterious Substances Control Act, and Occupational Safety and Health Act shall be met.

3) Precautions for Prohibited Substance Guarantee,

- •As for the prohibited substances and the prohibited substance in manufacturing process, refer to Appendices 1 and 2, respectively.
- •In addition, for details of the prohibited substances, Appendix 4 "List of RoHS Exemptions" shall be referenced.
- •For prohibited substances in Appendix 3, if you receive notification that the use of the target product falls under the usage of Appendix 3, you must guarantee the usage of Appendix 3.

From the viewpoint of expanding opportunities for new recruitment even when not receiving notification, it is desirable to include it in the guarantee if it can be guaranteed.

4) Precautions for Form of research on Halogens (Exhibit 4)

If neither "Five halogen substances (Br, Cl, F, I, At) free" nor "compliance with IEC61249-2 -21" is applicable, enter the reason in the remarks of the response and submit it.

5) Precautions for Supplier Environmental Conservation System Assessment List (Exhibit 5)

In "(2) Confirmation of Chemical Substance Management System," there is a question regarding the implementation and recording of education in the implementation item 5.4.2. The effectiveness of education should be checked and recorded, since it will be heard at the time of confirmation of the supplier's chemical substance management system.

In addition, if there is no nonconformity or quasi-conformity in the implementation item 5.4.2 or later, a correction plan should be submitted.

If there is an item with a score of 0 in "(3) Checking the quality control status of prohibited substances," a correction plan should be submitted.

The form of the correction plan should be optional.

- 6) Precautions for Analysis Data etc. of respective homogeneous material
 - ① High-precision analysis data of Ten Substances designated by RoHS Directive (ICP data, etc.)
 - Pre-processing method/analysis method, complete dissolution statement and analysis flow chart shall also be attached.
 - •Analysis should be done in conformity with IEC 62321 at a measurement organization that has acquired ISO17025 certification.
 - •Data that were analyzed within last one year, in principle.
 - ★ As for metallic materials, analysis data of PBBs and PBDEs shall not be required.
 - ★ To Suppliers: The material shall be managed by suppliers for one year or less, in principle.
 - •If the material can be guaranteed to be halogen-free, analysis of chlorine and bromine should be included in the analysis data as much as possible. (If not guaranteed, or if metal or plating, halogen-free analysis is not required)
- 7) Prior report for a case where contained chemical substance may transform In case the contained chemical substance in 2 Scope (2) may transform, required documents as stated in (4) to (7) shall be submitted again according to Attached Table 1 Table A "List of Documents to be Submitted" and Table B "Detailed Information on Chemical Substances" at the time of submitting the process change notification.
 - (Note) Transformation of contained chemical substance includes changes in the ratio of chemical substance in addition to changes in ingredients of chemical substance.
- 8) The renewal timing and retention period of the submitted data As per Table 2.

The retention period shall start as of the data when the supply of the articles is terminated or the data are no longer required due to updating etc.

Table 2

Table 2			
Documents	Renewal	Retention	Destination of
	Timing	Period	Submittals
chemSHERPA-CI(JAMP)	a change is	25 years since	Requester
	made	the suspension	
		of parts or	
		materials	
Form of Chemical substance	Same as	Same as above	Requester
composition(Exhibit 2)	above		
chemSHERPA-AI(JAMP)	Same as	Same as above	Requester
,	above		
Configuration Table	Same as	Same as above	Requester
(Not required when the constituent is	above		
only one homogeneous material.)			
SDS	Same as	Same as above	Requester
	above		
Prohibited Substance Guarantee,	Same as	Same as above	Requester
(Form: Exhibit 3)	above		
High-precision analysis data of Ten	Every year	Same as above	Requester
Substances designated by RoHS			
Directive			
Form of research on Halogens	a change is	Same as above	Requester
(Form: Exhibit 4)	made		
Guidelines for the Management of	Same as	Same as above	Requester
Chemicals in Products Check Sheet	above		
Evaluation List of Environmental	Same as	Same as above	Requester
Preservation at Suppliers(Form:	above		
Exhibit 5)			

9). Contact address concerning the Guidelines Environment Management Office Hirose Electric Co., Ltd. +81-45-620-3563

7. Revision History

Version	Revision Date	Description
1	2006.12.11	First edition
1.1	2007.10.31	 1. Addition of supplements Note added to 28) 2 * 3 was added. * 3 3.1 Scope: Concerning articles that fall under 2), submission shall not be required unless otherwise specially required. 2. Change in expression Expression in 25) ②was changed. In case no prohibited substance is used → In case the prohibited substance is not contained and the prohibited substance in manufacturing process is not used
2.0	2009.6.25	Submitted. 1. Contents Deleted: Appendix 2 List of Controlled Substances, Exhibit 1 Form of Investigation Sheet of Inclusion Added: Attached Table 1 List of Documents to be Submitted, Form of Exhibit 1 Table of All Ingredients of Preparations, Form of Exhibit 2 Configuration Table, Form of Halogen Substance Non-Inclusion Guarantee Change in document configuration: Paragraph 3 Chemical Substance Management was deleted. Scope, Operation, and Definitions of Term were allocated and inserted into Paragraphs 2, 3, and 4, respectively. 2. Paragraph 1 Objective Added: The following sentence was added. The Evaluation List of Environmental Preservation at Suppliers and the List of Items to be Executed and Check Sheet are tools for suppliers to check the satisfaction level of the requirement and implement activities for improvement. 3. Paragraph 2 Scope <previous 3.1="" paragraph=""> 1) Added: ① Apply to suppliers (suppliers and subcontractors of articles). ② (including those that are likely to be delivered) (for selling to customers), to be delivered to customers 2) Revised: Explanation was revised to be easier to understand (The meaning remains same.)</previous>

3), 4), and $\overline{5}$ 2.0 2009.6.25 Continued Added: Items 3), 4), and 5) were added to Scope. 4. Paragraph 3 Operation Added: The present item was added. 5. Paragraph 4 Definitions of Term 1. Terms were added. Paragraphs 1) to 5) Paragraphs 11), 15), 16), 17), and 18) 6. Paragraph 5 Requirements to Suppliers 4) Submission of Chemical Substance Inclusion Information Revised: Totally revised (for renewal of substances to be reported, introduction of AIS and MSDSPlus) 5) Submission of Prohibited Substance Non-Inclusion Guarantee and Prohibited Substance Declaration/Guarantee Revised: In case the substance does not fall under ② → Details of ② were stated in a specific manner. 6) Submission of Halogen Substance Non-Inclusion Guarantee Added: The above-stated items and descriptions were added. 7) < Previous 6) > Submission of analysis data for each homogeneous region Revised: Homogeneous region → Homogeneous material (changed to JAMP expression) Added: Measurement data → High-precision analysis data (ICP data, etc.) •Analysis shall be done in conformity with IEC 62321. ★ To Suppliers: The material shall be managed by suppliers for one year or less, in principle (limited to the case of metallic material). 9) < Previous 8) > List of Documents to be Submitted by Suppliers. Update timing and minimum storage period Deleted: List (The list was separated as Attached Table.) 7. Paragraph 6 Added: Concerning the Guidelines, Co., Ltd. <Appendix 1 Prohibited Substances Revised> 1. Addition 1) Column on List of Substances for CAS No. Reference and Example. For substances that can be referenced on lists of example substances such as JIG or GADSL, names of the reference lists are were added. 2) Columns for Reference Laws and Regulations/Self-Imposed Regulation As for JIG controlled substances, the criteria were added. As for GADSL prohibited substances, the term "GADSL Prohibited Substance" was added. 3) NOTE Notes were added concerning the above-stated (1), and URLs from which the list of example substances can be obtained were clearly stated. 2. Added Prohibited Substances ① 1,1,1-trichlorethylene ② Diarsenic pentoxide (broken away from arsenic and its compounds to match JIG) ③ Diarsenic trioxide ((broken away from arsenic and its compounds to match JIG) 4 Tris phosphate (2,3-dibromopropyl) (5) Tris (1-aziridinyl) phosphine oxide (6) Perfluorooctansulfonate (PFOS) and its salt (7) Perfluorocarbon (PFC)

			14/24
2.0	2009.6.25	® Hydrofluorocarbon (HFC)	
	Continued	9 Sulfur hexafluoride (SF6)	
		10 Hexabromocyclododecane (HBC	CDD) and all major diastereoisomers
		① Chloromethyl methyl ether	
		② 2-Methoxyethanol	
		13 N-nitrosodimethylamine	
		(4) Tetrachlorobenzenes	
		15 Tetrafluoromethane	
		(f) Chloroethylene (another name	e: vinyl chloride)
		Dimethyl fumarate (DMF)	
		3. Changes	
			of formaldehyde: Wood products and
			yde at the concentration of 0.1 ppm or
		_	yde at the concentration of 0.1 ppm or
		over shall be prohibited.	
		② Ozone depleting substances	
		Error in class rating was correct	ed
		③ Phthalic acid	
		Change in threshold value	
		Since direct interpretation of	the law results in total value of
		respective substances, the value	ue of 0.1% that had been set out for
		each substance was changed to	0.1% in total.
		Bis phthalate	Use of the substances is
		(2-ethylhexyl)(DEHP(DOP))	prohibited when the total of
		Dibutyl phthalate (DBP)	those shown at the left reaches
		Butyl benzyl phthalate (BBP)	0.1% or over, which is limited
			to plastic materials included in
		D: 1 1 1 1 (DIMD)	toys and supplies for children.
		Di-isononyl phthalate (DINP)	Use of the substances is
		Di-isodecyl phthalate (DIDP)	prohibited when the total of
		Di-n-octyl phthalate (DNOP)	those shown at the left reaches 0.1% or over, which is limited to
			applications for toys and
			supplies for children that
			children put into their mouth.
		3. Deletion-Prohibited Substances	*
			ng the prohibited substances TBTs,
		TPTs, and TBTOs.	,
		Reason: They shall be exc	eluded from the prohibited substances
		since the prohib	ited applications are biocide products
		and industrial w	vater treatment.
			tances for Use in Manufacturing
		Process>	
		1. Added Prohibited Substances	. (
		①Perfluorooctansulfonate and its	
			ectric List of Regulation Values of
		Substances Regulated by RoHS D	Directive>
		1. Added Regulation	•
		① Regulation value of mercury fo	
		<appendix 1="" 2="" 2<="" 4="" application="" expension="" table="" td=""><td>xempted by RoHS Directive></td></appendix>	xempted by RoHS Directive>
		1. DecaBDE paragraph deleted	
			ric will not approve any exemptions
			nce it is excluded from exemptions of
		of six exemptions that were added	on paragraph was deleted. Regulation
		or six exemptions that were added	a by 2005/445/EU was added.
		+	
	1		

2.1 2010.3.25

1. Purpose

Addition of description related to biodiversity conservatory activities

5. Requirements for supplier

Addition related to biodiversity conservatory

- 5. 4) < Precautions for Preparing MSDSPlus, Table of All Ingredients of Preparations, AIS sheet, and Configuration Table>
 - "MSDS and High-precision analysis data of homogeneous material for each homogeneous material should be attached to the configuration table" is added
 - ·f) Precautions on MSDS are added
- 6. Submission of guarantee card related to halogen-free

It was submitted when it was requested, however, the submission is decided to be necessary, and the content was changed so that the item that could not be guaranteed should be submitted by describing the fact.

8. List of submitted documents

The reference of the guide of submitted documents for each delivered product is added.

<Appendix 1. Addition of prohibited substance is added>

Following prohibited substances are added reflecting the integration of REACH regulation of 76/769/EEC, the revision of Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc., and the revision of GADSL.

1. Additional prohibited substance

Ammonium polysulfide

Volatile bromoacetate esters:

Methyl bromoacetate

Ethyl bromoacetate

Propyl bromoacetate

Butyl bromoacetate

Organotin compound

- (a) Creosote
- (b) Creosote oil
- (c) Distillate (coal-tar), naphthalene oil
- (d) Creosote oil, acenaphthene fraction
- (e) Distillate (coal-tar), high-temperature fraction
- (f) Anthracene oil
- (g) Tar acid, carbon system, roughness
- (h) Creosote, woody
- (i) Tar oil, alkaline property, low temperature

Diphenyl ether pentabromo derivative C₁₂H₅Br₅O

Diphenyl ether octabromo derivative C₁₂H₂Br₈O

- (1) Nonyl phenol C₆H₄(OH)C₉H₁₉
- (2) Nonylphenol ethoxylate (C₂H₄O)nC₁₅H₂₄O

Toluene

Trichlorobenzene

Polycyclic aromatic hydrocarbon (PAH)

- 1. Benzo (a) pyrene (BaP)
- 2. Benzo (e) pyrene (BeP)
- 3. Benzo (a) anthracene (BaA)
- 4. Chrysene (CHR)
- 5. Benzo (b) fluoranthene (BbFA)
- 6. Benzo (j) fluoranthene (BjFA)
- 7. Benzo (k) fluoranthene (BkFA)
- 8. Dibenzo (a, h) anthracene (DBAhA)"
- 2-(2-methoxyethoxy) ethanol (DEGME)

2-(2-butoxyethoxy) ethanol (DEGBE)

2.1	2010.3.25 Continued	Methylenediphenyldiisocyanate (MDI) Cyclohexane Ammonium nitrate (AN) "N-nitrosodimethylamine <appendix 4.="" application="" excluded="" from="" of="" protocol="" rohs="" the=""> • Cadmium in alloy at electrical / mechanical solder joint part of conductor that is directly attached to the voice coil of convertor of high input resistance speaker whose sound pressure level is 100 dB(A) or more • Cadmium used for II-VI family LED (cadmium should be 10 µg or less per luminous area millimeter squared) for illumination or indicator</appendix>
3	2011.6.1	 ①The latest edition is listed due to change in the environmental policy. ② Prohibition of use in the manufacturing process is clearly indicated according to the definition for prohibited substances and mixing in the manufacturing process. ③ Notes are added to MSDS of the required documents in Tables A and D. ④ Retention period in Table B is revised considering REACH Regulation. ⑤ Chemical Substance Questionnaires in Hirose format by Attachments 1 through 4 and Attachment 6 are revised. ⑥ Prohibited substances are classified into two types, Level 1 and Level 2 respectively. ⑦ The following two substances are additionally included as the Level 2 prohibited substance. • 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) • 4,4'-Diaminodiphenylmethane (MDA) ⑧ Attached Table 1: Consistency of the threshold values are established principally for the substances under Annex XVII of REACH. ⑨ Attached Table 3: Exemptions from the RoHS Directive are revised due to the amendment of the regulation (as of September 25, 2010).
4	2012.7.14	 5. Requirements to Supplier: Item 3 "Production in cadmium-free plant" has been changed to Item 2 "Quality control system must be established and managed rigorously to ensure prohibited substances are never used." 6. Contact address concerning the Guidelines: The telephone number changed following the relocation of the office. <history list="" of="" on="" prohibited="" substance="" updates=""></history> • The layout of the list of Prohibited Substances has been changed to clarify that the laws and regulations referenced are not part of the Directive. • 4,4-diaminodiphenylmethane (MDA) had been included at both Level 1 and Level 2. It has now been deleted from Level 2. • Correction made to CAS No. of DINP and DIDP. • To comply with revised regulations, the threshold value for lead, mainly in products for children aged 12 or younger, has been reduced from 300 to 100. • The CAS No. for ammonium polysulfide (9080-17-5) was added following the incorporation of 76/769/EEC into REACH. • Beryllium oxide has been added to Level 2. • Note 5 was added to clarify the relationship between "intentional addition" and "threshold value." • In response to the substances added in EU REACH ANNEX XIV (2012/2/15), a total of three substances prohibited for the first time has been added to Level 2. • The RoHS exemptions have been updated to reflect the latest version.

	1	
4	2012.7.14 Continued	<annex 1="" table=""> The required retention period for RoHS-related records in Table C was changed to 11 years to comply with revised regulations. <format documents="" of="" submitted=""> Exhibits 3 and 4 have been revised to make documents consistent with changes in the Requirements to Supplier: "Production in cadmium-free plant."</format></annex>
5	2013.6.26	<change addition="" and="" of="" prohibited="" substances="" the=""> No addition in this revision. Correction of the following CAS No. Lucifer matches CAS No 7723·14·0 ⇒ 12185·10·3 Revisions made are as follows. Reference to MSDS is changed to (M)SDS. Addition (If a guidance or penalty is received, it shall be communicated to Hirose Electric.) 5.2) Introduction and addition of Guidelines for the Management of Chemical Substances in Products for Medium to Small Businesses 5.3) Acceptance criteria of the Guidelines for the Management of Chemicals in Products Check Sheet are reviewed according to version up of the check sheet. Details of the request for Chemical Substance Information are summarized in Section 6. Attached Table 1 is deleted and its contents are described in the text of the Guideline. 6.1) d) Additional requirement for the Table of Ingredient before Preparation in case the total contents are not 100% is clearly indicated. 6.2) c) A notice is added that MDS No. can replace the Table of Ingredient before Preparation Exhibit 6 Acceptance criteria in the Evaluation List of Environmental Preservation at Suppliers are changed in accordance with revision of JAMP. Addition of confirmation items on quality control condition of the </change>
		prohibited substances ③ Full score of 120 is changed to full score of 200.
6	2014.7.16	<pre>Appendix 1> ■Added Level 1 Prohibited Substances below tris(2-chloro-1-methylethyl) phosphate(TCPP) tris(1,3-dichloro-2-propyl) phosphate(TDCPP) Endosulfan PAH 8 kinds →18 kinds (10 kinds added) BNST ■Following Level2 Prohibited Substances are promoted to Level DBT DIBP TCEP 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) 2,4-dinitrotoluene ■modified threshold of following substance Polychlorinated Naphthalenes (PCN)</pre> <appendix 4=""></appendix>
		■ Overdue Exemptions have been deleted (2 items) <appendix 1=""> ■Added Level 1 Prohibited Substances below</appendix>

6 Contin ued		①PFOA and its salts, ②Medium Chain Chlorinated Paraffins(C14 – C17) ③Red Phosphorus ■modified threshold of following substances
		①Asbestos
		②Formaldehyde ③Nickel and its compounds
		4 Ozone Depleting Substances
		⑤Arsenic and its compounds
		©Polycyclic-aromatic hydrocarbons (PAH) (Chromium (VI) Compound
7	2015.7.3	<appendix 4=""> ■Overdue Exemption has been deleted</appendix>
8	2016.7.12	<pre><appendix 1=""></appendix></pre>
		■Added Level 1 Prohibited Substances below PCN: having 3or more chlorine atoms→ having 1or more chlorine atoms
		■Modified threshold of following substances HBCDD or HBCD
		1000ppm→100ppm
		■Modified description PFOS, PFOA, Arsenic and its compounds,PCPs, PAH
		<appendix 3=""></appendix> ■Added Restrictions on the battery has been added
		<appendix 4=""> ■Overdue Exemption has been deleted</appendix>
		< Submitted Documents>
		■note7 has been added.
		■ annex4 has been merged into annex3 ■ Reviewing the format for Halogen-Free Guarantee
9	2017. 8. 2	<pre><changes 1="" appendix="" in=""></changes></pre>
		1) The following Level 1 Prohibited Substance was added. (4-chlorophenyl) cyclopropylmethanone
		Prohibited for exclusive use (inorganic ammonium salt, bisphenol
		A) 2) Change from beryllium oxide level 2 to level 1
		3) Threshold for specific phthalic acid We reviewed it according to
		Taiwan CNS 4797.
		4) Yellow phosphorus match, N-nitrosodimethylamine resurrection (It was revived because it was missing in 9th edition → 10th edit ion erroneously)
		ion erroneously) 5) Revised the notes of the reference law section.
		<definition of="" terms=""> In consideration of the release of chemSHERPA, a new chemical s ubstance transmission tool, we reviewed the explanation of the me</definition>
		chanism of chemical substance transmission provided by JAMP
		<requirements> Utilization of environmentally and biodiversity-conscious materials →Promote supply chain management that considers biodiversity w hile striving for environmental conservation</requirements>

		19/24
9 Contin		<business conservation="" environmental="" evaluation="" partner="" sheet=""> Biodiversity was also evaluated.</business>
ued		Review check items for quality control of prohibited substances
		<change mnemonic="" name="" of=""> (M) Change to SDS → SDS</change>
10	2018. 3. 8	 ■ Appendix 3: Move banned substances related to RoHS Directive to Appendix 1. ■ Summarize items prohibited additionally to toys, batteries, pack aging, and set it as Appendix 3 anew. ■ Text 6 3) The explanation of Appendix 3 has been added. ■ Attachment 3: Revised the form of guarantee on prohibited sub stances
11	2018. 7. 20	<appendix 1=""> ■BNST was deleted.</appendix>
		The substance is not restricted because the only regulation that restricts it has changed ■Substances corresponding to P or P of D / P on GADSL were added to Prohibited Substance Level 1. To prevent failure of declaring prohibited substances and to corres pond with the automobile industry standard. ■Since the items of organic tin partially overlapped, they were re vised.
		■The substances on the Authorization List under REACH Regula tion are designated as Prohibited Substance Level 2.
12	2019. 8. 6	 ■ Changes to the text [Changes in terms, etc.] "Action item list and check sheet" was changed to "Check sheet for management guideline of chemical substances in products". Along with the above, the target items of the pass criteria have a lso been changed to "4.4.2-4.4.10" and "5.4 or later". * Because the check sheet of the referenced JAMP has been reviewed and its name has been changed [Change of storage period] Changed from 11 to 21 years. Related notes also changed with the change * Because individual requirements of customers in the automotive industry have been reflected [Update time] Except for evidence analysis data on quality control status, "every year" was deleted from documents for confirming specifications of chemical substances. Added the request for resubmission due to the change in Hirose Electric standards to the note content at the time of change (Note 2). [Delete] A part of the old format, AIS, MSDSplus and related items were deleted
	2019.8.6	[Section 6 ② 2) Pharmaceutical ingredients list, chemSHERPA, co mposition table, SDS precautions i), c)] Added "If volatilization or chemical reaction occurs, describe components after drying and reaction as much as possible." [Section 6-5) Precautions for analysis data etc. for each homogeneous material] "Measurement institution that has acquired ISO17025 certification" was added. "Materials that can be guaranteed halogen-free should include analysis of chlorine and bromine as much as possible."

12		■ Changes in the Appendix (Chemical Substance Management St
Contin		andards)
ued		[Appendix 1-Change of Banned Substances]
		Addition of phenylmercury
		* Because it is a banned substance of ANNEX17 of REACH and i
		s different from RoHS threshold
		· Review of PFOA prohibited contents
		* Because it was a banned substance under REACH ANNEX17, t
		he regulations were added to the Norwegian and Canadian laws a
		nd regulations.
		[Appendix 3-Change of prohibition in only for the product use]
		The rewritten content of the appendix title "More" was specificall
		y clarified as "Addition to Appendix 1".
		• Regulations of EN71 standard of EU toy directive were added f
		or toys or children's goods. • Restriction on phthalic acid of REACH ANNEX17 has been add
		ed for toys or children's goods, packaging and batteries. [Appendix Table 4-Changes to RoHS exemptions]
		-The number on the directive, the expiration date of the exemption
		n, the old directive, etc. were added, and the revision of the direct
		ive was reviewed to follow.
		■ Changes to the attached sheet (submission form)
		[Attachment 1 Dispensing All Components Table ver3.05]
		"If volatilization or chemical reaction occurs, describe the compone
		nts after drying and reaction as much as possible."
		[Attachment 4 Halogen-free warranty ver2.1]
		Added "(The following criteria shall be met for each homogeneous
		material)" to clarify that the conformance conditions are for each
		homogeneous material.
		[Attachment 5_Supplier environmental conservation evaluation list ver4 2]
		Improve the display space so that there is no change in the conte nt and the characters do not break
13	2020.10.13	2.Scope
10	2020.10.13	change of description. (The scope itself remains unchanged.)
		4. Definition of Terms Used 11) Controlled substances
		Error correction
		■Appendix 1
		Tetrabromobisphenol-A: Banned substance added
		Nitrogen trifluoride: added as a prohibited substance
		PVC: Prohibited to be used for flat cable
		Formaldehyde: threshold values reviewed
		■Appendix 3:
		We reviewed the threshold for batteries.
		For packaging, PBDE threshold was added
		■Appendix 4
		The items that have expired are colored in. ■Exhibit 1
		The notes have been revised for clarity. Exhibit 5.
		(2) Confirmation of Chemicals Control System
		The checklist version and the implementation section number w
		ere clarified.
	i	1

14	2021.9.30	2.2 Definition of Terms Used Definitions of "5)Intentional Adding" and "6)Inclusion except for intentional adding" were revised.
		■Appendix1
		• Tetrabromobisphenol A (TBBP-A):added "its derivatives"
		· Cadmium/cadmium compounds : =< →<
		The following Level 1 prohibited substances were added.
		LCPFAC
		PIP(3:1) PCTP
		1-Bromopropane
		1,4-dioxane
		N-Methylpyrrolidone (NMP) Pigment Violet 29
		• The following Level 2 prohibited substances were added.
		Perfluorohexane-1-sulphonic acid and its salts(PFHxS), all members
		Dechlorane plus
		PFCAs (C9-C14) and their salts ,related substances
		■Appendix 4 • The items that have expired are colored in.
		Addition (discussing extension/No extension)
15	2022.9.26	6.(7) The renewal timing and retention period of the submitted data
		Retention period for documents submitted: changed from 21 to 25 years
		(Table 2) The quality record retention standard (HQS-I 001) defines the retention period as
		25 years from the cessation of production, which was adopted.
		■Appendix 1
		The regulatory content of the following substances was reviewed. (Reflects customer requirements)
		PVC Inclusion in materials (e.g. ink) used for marking on sheaths of electric wires is not prohibited.
		The following substances were changed from Level 2 to Level 1 prohibit ed substances.
		(As it is a chemical substance whose use is prohibited by law)
		 PFCAs (C9-C14) and their salts ,related substances Perfluorohexane-1-sulphonic acid and its salts(PFHxS), all members
		• 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5, 10*]octadeca-7,15-diene, all members (Dechlorane plus)
		The following substances were added to Level 1 prohibited substances. (As it is a chemical substance whose use is prohibited by law)
		• UV-328 • 1H-1,2,4-triazol-5-ylamine
		• Iprodione.
		Nonylphenol and nonylphenol ethoxylates
		MOAH (Mineral oils) content to be regulated from 1 January 2023.
		The following substances were added to Level 2 prohibited substances. (Reflects legislation and customer requirements).
		 MOAH (mineral oils) content to be regulated from 1 January 2025. MOSH (mineral oils)
		Decabromodiphenylethane (DBDPE).
	1	1

		22/24
15 Continu ed	2022.9.26	The alias names of the following substances were added. • Bisphenol A
eu		■Appendix 4
		Note mark '*3' was added in the column of legal expiration dates.
		Items with exempted expiration dates that have passed are shown in gray. (2 items of lead and its compounds)
		• For Legal No. 37 of lead and its compounds, the content of in the Legal expiration dates field was corrected to 2021/7/21(No extension).
		Exempted expiration dates were filled in for items with extended exempted expiration dates. (27 items of mercury and its compounds)
		Note *2(Undecided or Under discussion) was deleted.
16	2024.1.22	■ Changes to the text Section1. Purpose Hirose Electric Basic Environmental Policy: Change of company slogan Change from ""Creative Links to World Electronics" to "A Small Company Connecting Wisdom" Section5. Requirements to Supplier
		1) Establishment of Environmental Management System 2) Requirements for environmental conservation activities: Educational implementation of "chemical substance management" and confirmation and record of its effectiveness were added. The words of "chemical substance management" were not written, and the words of "enlightenment activities" were concretized and clarified because they were almost abstract expressions.
		Section6. Request for submission of chemical substance information for the purchased articles 5) Precautions for Exhibit 5 The corrective action plan is added when it is necessary.
		■ Exhibit 5. (2) Confirmation of Chemicals Control System The following information was added. Confirmation of ISO9001 external certification status (This formula not only confirms environmental and biodiversity Conservation, but also confirms the quality control status and contamination risk of prohibited substances.)
		(3) Confirmation of Quality Management Status for the Banned Substance • Added confirmation items for concurrent production (Response to customer audit points) • The following content was added in the submission of the corrective action plan. If even one item has a score of 0(zero) among the nine items in each of the Systeme and Operating record (18 items in total), a corrective action plan (optional format) should be submitted. (All the items to be checked are important as quality control items, so if there is an item with a score of 0, corrective action is required regardless of the passing judgment.)
17	2024.9.30	■Changes to the text No revision of the tex
		■Appendix 1 The following substances were added to Level 1 prohibited substances. (As it is a chemical substance whose use is prohibited by law)
		Perfluorocarboxylic acids (PFCAs) C9–C21 and their salts and related substances
		The following substances were added to Level 2 prohibited substances. (As it is a chemical substance whose use is prohibited by law)
		 Mineral Oil Aromatic Hydrocarbons (MOAH containing 3 to 7 aromatic rings) Mineral Oil Saturated Hydrocarbons (MOSH containing 16 to 35 carbon atoms)

		23/24
17 Continued	2024.9.30	The regulatory content of the following substances was reviewed. (Reflects the content of law)
		 Specified Polybrominated Diphenylethers (PBDEs) Perfluorohexane-1-sulphonic acid and its salts(PFHxS), all members Mineral Oil Aromatic Hydrocarbons Mineral Oil Saturated Hydrocarbons
		The alias names of the following substances were added. • MCCPs(C14-17) Medium Chain Chlorinated Paraffins
18	2025.9.19	-Changes to the text
10	2025.9.19	■Changes to the text Examination Documents of Hirose Electric
		Name
		The names of the documents in Exhibits 1 and 4 of Version 18 were changed, and Exhibits 1 and 2 were replaced in Version 19.
		Varion 40
		Version 18 Exhibit 1:Table Form of All substances Information for preparation Exhibit 2:Form of Configuration Table Exhibit 4:Form of Halogen Substance Non-Inclusion Guarantee Version 19 Exhibit 2:Form of Chemical substance composition Exhibit 4:Form of Configuration Table Exhibit 4:Form of research on Halogens
		4. Definition of Terms Used
		12) Substances prohibited in manufacturing process
		Deleted to be integrated into 9)prohibited substances
		13) CAS Registry Number
		Name changed to official name CAS Registry Number Explanation of this term changed to easy-to-understand expression
		6 (4) Procautions for Form of research on Halogons (Exhibit 4)
		6 (4) Precautions for Form of research on Halogens (Exhibit 4) As the form of the response form regarding halogen was revised,
		the explanation of the response method was also revised.
		■Appendix 1
		The following substances were added to Level 2 prohibited substances.
		(Reflect legal trends)
		• PFAS
		Perfluorohexanoic acid(PFHxA) and its salts and related substances
		OChanges in regulatory conditions for the following substances
		(Reflects the content of law)
		Perfluorooctane sulfonicacid(PFOS) and its salts and related substances
		Perfluorooctanoic acid (PFOA) and its salts and related substances
		Perfluorocarboxylic acids (PFCAs) C9-C21 and their salts and related substances
		• PFOSF
		• HBCDD
		• Dechlorane plus
		• UV-328
		Add alternate substance names for the following substances (improving searchability) Tris-(1-aziridinyl) phosphine oxide
		Dibutyltin hydrogen borate
		• Dichloromethane
		Pentachlorothiophenol
		OCorrect substance names for the following substances
		• 1,2-Dichloropropane
		• 1,2,4-Trichlorobenzene
		OAddition of abbreviations for the following substances (improved searchability)
		• 2-(2H-1,2,3-Benzotriazole-2-il-4.6-di-tert-butylphenol): UV-320
		• Tris(2,3-dibromopropyl)phosphate [TRIS] : TBPP
		• Bis(chloromethyl)ether : BCME
		 ○Corrects abbreviations for the following substances Dimethyl fumarate : DMF→(DMFu
		OAdded CAS registration numbers for the following substances (improving searchability)
		• TBTO : 56-35-9
		• PFOSF : 307-35-7
		• $lpha$ -hexachloro cyclohexane : 319-84-6
		• β-Hexachlorocyclohexan : 319-85-7
		• γ -Hexachlorocyclohexan : 58-89-9
		• Chlordecone : 143-50-0
		Hexabromobiphenyl : 36355-01-8 Monomothyldishlorodiphenylmothens : 81161.70.8
		Monomethyldichlorodiphenylmethane : 81161-70-8

18 Continued	2025.9.19	■Appendix 2 Since these substances are the same as the prohibited substances in Annex 1, the text to that effect is added and the list is deleted.
		■Appendix 4 Only the exemptions used by our company are listed.
		■Exhibit 1,2,3,4 Improvements to ease of use and readability reflecting requests from suppliers and internal companies

	Prohi	bited Substance		Defended laws and
Category	Substance	Regulation Value (Note 5)	CAS No List of Reference Substances (Note 1)	Referenced Laws and Regulations, etc. (The contents of this column do not limit the prohibited items on the left)
Prohibited Substance Level 1	Cadmium/cadmium compounds	Intentional addition(note 7) prohibited. Solder < 20ppm Metals < 75ppm Other < 5ppm refer to Exemptions(Appendix 4)	JIG-101 ANNEX B GADSL	RoHS Directive (2011/65/EU) ELV Directive (2000/53/EC) etc., JIG-101 Criteria R, GADSL Prohibited Substance
Prohibited Substance Level 1	Chromium VI compounds	Intentional addition(note 7) prohibited. Leather article coming into contact with skin(note6) 3ppm Other 1000ppm refer to Exemptions(Appendix 4)	JIG-101 ANNEX B GADSL	RoHS Directive (2011/65/EU) ELV Directive (2000/53/EC) etc., JIG-101 Criteria R
Prohibited Substance Level 1	following Phenylmercury: •Phenylmercuric acetate (62-38-4) •Mercury, phenyl(propanoato-O)- (103-27-5) •Mercury, (2-ethylhexanoato-O)phenyl-(13302-00-6) • Mercury, (octanoate)phenyl-(6CI,8CI) (13864-38-5) •Mercury, (neodecanoato-O)phenyl-(26545-49-3)	Intentional addition(note 7) prohibited. 1000ppm		REACH Annex XVII
Prohibited Substance Level 1	Mercury/mercury compounds However, the above phenylmercury are excluded	Intentional addition(note 7) prohibited. 1000ppm refer to Exemptions(Appendix 4)	JIG-101 ANNEX B GADSL	RoHS Directive (2011/65/EU) ELV Directive (2000/53/EC) etc., JIG-101 Criteria R, GADSL Prohibited Substance
Prohibited Substance Level 1	Lead/lead compounds	Intentional addition(note 7) prohibited. Plastics 100ppm Solder 500ppm Metals 1000ppm Cables 100ppm Other 1000ppm refer to Exemptions(Appendix 4)	JIG-101 ANNEX B GADSL	RoHS Directive (2011/65/EU) ELV protocol (2000/53/EC) etc., JIG-101 criteria R, GADSL prohibited substance
Prohibited Substance Level 1	Specific bromine (PBBs)	Intentional addition(note 7) prohibited. 1000ppm	JIG-101 ANNEX B GADSL	RoHS directive (2011/65/EU), REACH Annex XVII, JIG-101 criteria R, GADSL prohibited
Prohibited Substance Level 1	Specified Polybrominated Diphenylethers (PBDEs)	Intentional addition(note 7) prohibited. 1000ppm	101-55-3, 2050-47-7 49690-94-0, 40088-47-9 32534-81-9, 36483-60-0 68928-80-3, 32536-52-0 63936-56-1	RoHS directive (2011/65/EU), JIG-101 criteria R, GADSL prohibited substance, TSCA
		Intentional addition(note 7) prohibited and not detected	1163-19-5	
Prohibited Substance Level 1	Di(2-ethylhexyl)phthalate (DEHP) bis(2-ethylhexyl)phthalate (DOP)	Intentional addition(note 7) prohibited. 1000ppm	117-81-7	RoHS Directive (2011/65/EU) etc., JIG-101 criteria R, GADSL prohibited substance
Prohibited Substance Level 1	Benzyl butyl phthalate (BBP)	Intentional addition(note 7) prohibited. 1000ppm	85-68-7	RoHS Directive (2011/65/EU) etc., JIG-101 criteria R, GADSL prohibited substance
Prohibited Substance Level 1	Dibutyl phthalate (DBP)	Intentional addition(note 7) prohibited. 1000ppm	84-74-2	RoHS Directive (2011/65/EU) etc., JIG-101 criteria R, GADSL prohibited substance
Prohibited Substance Level 1	Diisobutyl phthalate (DIBP)	Intentional addition(note 7) prohibited. 1000ppm	84-69-5	RoHS Directive (2011/65/EU) etc., JIG-101 criteria R, GADSL prohibited substance

Prohibited Substance Level 1	Tetrabromobisphenol A (TBBP-A) and its derivatives	Intentional addition(note 7) prohibited. 1000ppm	79-94-7	Bangladesh (threshold :1500 ppm) RoHS Directive(2011/65/EU)PACK15
Prohibited Substance Level 1	MCCPs(C14-17) Medium Chain Chlorinated Paraffins	Intentional addition(note 7) prohibited 1000 ppm or less	GADSL	POPs (Stockholm Convention) To be discussed at the 12th Meeting of the Conference of the Parties(2025) Norway PoHS (Prohibition on certain Hazardous Substances in Consumer Products)
Prohibited Substance Level 1	SCCPs(C10-13) Short chain Chlorinated Paraffins	Intentional addition(note 7) prohibited 1000 ppm or less	JIG-101 ANNEX B GADSL	EU POPs, (dioxine law of Germany) chemical goods ban of Germany, JIG-101 criteria prohibited substance
Prohibited Substance Level 1	Asbestos	Intentional addition(note 7) prohibited. 1000 below	JIG-101 ANNEX B (Note 2) GADSL(Note 3)	Industrial Safety and Health Act asbestos (prohibition) control of UK chemical goods ban of Germany, JIG-101 criteria R, GADSL prohibited substance,TSCA First10
Prohibited Substance Level 1	Azo color and colorant that generate a part of aromatic amine (refer to JIG-101 Table B)	Intentional addition(note 7) prohibited. Inclusion exceeding 1000 ppm is prohibited. The use of specified azodyes that may discharge aromatic amines at concentrations of 30 ppm or over on fabric and leather products that directly contact the skin is prohibited. (Note 4)	-	REACH Annex XVII, commodity control of Germany, JIG-101 criteria R, GADSL prohibited substance
Prohibited Substance Level 1	Specific amine (for the concrete substance, refer to JIG-101 Table B)	Intentional addition(note 7) prohibited.	JIG-101 ANNEX B	Refer to REACH Annex XVII
Prohibited Substance Level 1	Cobalt dichloride	Inclusion prohibited in silica gel for packaging material. In addition, inclusion of 0.1% or over is prohibited.	7646-79-9	REACH Annex XVII, JIG-101 Criteria R
Prohibited Substance Level 1	Dibutyltin compounds (DBT)	Intentional addition(note 7) prohibited If the tin concentration is larger than 0.1% of weight, use of the material is prohibited.	JIG-101 ANNEX B	REACH Annex XVII
Prohibited Substance Level 1	Dioctyltin compounds (DOT)	If the tin concentration is heavier than 0.1% of weight, use of the material is prohibited.	JIG-101 ANNEX B	REACH Annex XVII
Prohibited Substance Level 1	Trisubstitution organotin compound Tributyltines (TBT's), Triphenyltins (TPT's)	If concentration of the molding product or part is larger than 0.1% of weight of tin, it cannot be used	JIG-101 ANNEX B GADSL	JIG-101 criteria R REACH Annex XVII EU-R 1272/2008 /EEC Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. GADSL prohibited substance
Prohibited Substance Level 1	Organotin compound (Other than the above DBT,DOT,TBTs,TPTs)	Intentional addition(note 7) prohibited	_	REACH Annex XVII
Prohibited Substance	Dimethyl fumarate (DMFu)	Less than 0.1 mg/kg	624-49-7	2009/251/EC JIG-101 Criteria R
Level 1 Prohibited Substance Level 1	Perfluorocarbons(PFCs)	Intentional addition(note 7) prohibited.	JIG-101 ANNEX B	Control of fluorinated greenhouse effect gas (842/2006/EC), regulation of Australia JIG-101 criteria R

Prohibited Substance Level 1	Sulfur hexafluoride (SF6)	Intentional addition(note 7) prohibited.	JIG-101 ANNEX B 2551-62-4	Regulation on fluorinated greenhouse gases(842/2006/EC), Austria Ordinance, JIG-101 Criteria R GADSL Prohibited Substance
Prohibited Substance Level 1	Hydrofluorocarbons (HFCs)	Intentional addition(note 7) prohibited.	JIG-101 ANNEX B	Regulation on fluorinated greenhouse gases(842/2006/EC), Austria Ordinance, JIG-101 Criteria R
Prohibited Substance Level 1	Nitrogen trifluoride	Intentional addition(note 7) prohibited.	7783-54-2	Regulation on fluorinated greenhouse gases(842/2006/EC)
Prohibited Substance Level 1	Nickel and its compound	When long-term direct contact with the skin (note 6), the Intentional addition(note 7) prohibited or <0.28µg/cm2 / week for released nickel	7440-02-0	★Treated as prohibited substance when the substance may contact the skin for a long time REACH Annex XVII, JIG-101
Prohibited Substance Level 1	Ozone depleting substance (target materials of Montreal Protocol: groups I and II of appendix A, groups I, II, and III of appendix B, groups I, II, and III of appendix C, group I of appendix E)	Inclusion is prohibited regardless of quantity Whether it is remained or not ,anthing produced using it shall be also prohibited.	JIG-101 ANNEX B GADSL	Montreal Protocol, JIG-101 criteria R, GADSL prohibited substance Appendix C group I is the prohibited substance by voluntary regulation
Prohibited Substance Level 1	Perchlorates	0.0000006 weight % of product (0.006 ppm)	JIG-101 ANNEX B	California, US DTSC regulation setup, JIG-101 criteria R
Prohibited Substance Level 1	Perfluorooctane sulfonicacid(PFOS) and its salts and related substances	Intentional addition(note 7) prohibited 0.025ppm for the sum of PFOS and its salts 1ppm for the sum of PFOS related substances	JIG-101 ANNEX B GADSL	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. EU POPs Canada "regulation for prohibiting manufacturing, use, sales, and import of product that contains PFOS and its salt" JIG-101 criteria R GADSL prohibited substance
Prohibited Substance Level 1	Perfluorooctanoic acid (PFOA) and its salts and related substances	Intentional addition(note 7) prohibited 0.025ppm for the sum of PFOA and its salts 1ppm for the sum of PFOA related substances	GADSL 335-67-1, 3825-26-1, 335- 95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108- 24-5 etc	EU POPs Norway PoHS (Prohibition on certain Hazardous Substances in Consumer Products) Canada(form 2017/1/1) Regulations Amending the Prohibition of Certain Toxic Substances Regulations, 2012
Prohibited Substance Level 1	UV-320 2-(2H-1,2,3-Benzotriazole-2-il- 4.6-di-tert-butylphenol)	Intentional addition(note 7) prohibited.	3846-71-7	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. 1st type JIG-101 criteria R GADSL prohibited substance
Prohibited Substance Level 1	Polychlorinated Biphenyls (PCBs) and specific substitutes	Intentional addition(note 7) prohibited, PCB and PCT cannot be contained exceeding total 50 mg/kg	JIG-101 ANNEX B GADSL	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. 1st type, chemical goods ban of Germany, Directivel related to disposal of PCB and PCT 96/59/EC), JIG-101 criteria R, GADSL prohibited substance

Prohibited Substance Level 1	Polychlorinated terphenyls (PCT)	Intentional addition(note 7) prohibited., PCB and PCT cannot be contained exceeding total 50 mg/kg (Germany) 0.001% (GADSL)	JIG-101 ANNEX B GADSL	REACH Annex XVII Directive related to disposal of PCB and PCT (96/59/EC) Regulation related to import and export of dangerous chemicals (304/2003), chemical goods ban of Germany <pcb 50="" and="" be="" contained="" exceeding="" kg="" mg="" not="" pct="" should="" total=""> GADSL prohibited substance</pcb>
Prohibited Substance Level 1	Polychlorinated Naphthalenes (PCN) (limited to those having 1or more chlorine atoms)	Intentional addition(note 7) prohibited. cannot be contained exceeding total 50 mg/kg	JIG-101 ANNEX B	Chemical Substances Control Law Class 1, JIG-101 Criteria R
Prohibited Substance Level 1	PVC and PVC blends	Intentional addition(note 7) prohibited However, inclusion in the following items is not prohibited Sheathed parts of covered electric wires other than flexible flat cable. Materials (e.g. ink) used for marking on sheaths of electric wires	9002-86-2 etc.	Voluntary regulation Customer Requirement JIG-101 Criteria I
Prohibited Substance Level 1	Radioactive substances (radioactive isotope)	Intentional addition(note 7) prohibited.	JIG-101 ANNEX B	Council directive related to approximation of member states for the safety of toys 88/378/EEC the Nuclear Reactor Regulation Law, JIG-101 criteria R
Prohibited Substance Level 1	Bis (tributyltine) = oxide (TBTO)	Intentional addition(note 7) prohibited Even if the addition is not intentional, it cannot be used with 0.1% or more of concentration		Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. 1st type, REACH regulation, JIG-101 criteria R
Prohibited Substance Level 1	Hexachlorobenzene	Intentional addition(note 7) prohibited, prohibited at 20 ppb or more (Canada)	118-74-1	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1, GADSL prohibited substance, Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
Prohibited Substance Level 1	(Aalias: aldrin) 1, 2, 3, 4, 10, 10 - hexachloro - 1, 4, 4a, 5, 8, 8a - hexahydro - exo - 1, 4 - endo - 5, 8 - dimethanonaphthalene	Intentional addition(note 7) prohibited.	309-00-2	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias: dieldrin) 1, 2, 3, 4, 10, 10 - hexachloro - 6, 7 - epoxy - 1, 4, 4a, 5, 6, 7, 8, 8a - octahydro - exo - 1, 4 - endo - 5, 8 - dimethanonaphthalene	Intentional addition(note 7) prohibited.	60-57-1	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias: endrin) 1, 2, 3, 4, 10, 10 - hexachloro - 6, 7 - epoxy - 1, 4, 4a, 5, 6, 7, 8, 8a - octahydro - endo - 1, 4 - endo - 5, 8 - dimethanonaphthalene	Intentional addition(note 7) prohibited.	72-20-8	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias: DDT) 1, 1, 1 - trichloro - 2, 2- bis (4 - chlorophenyl) ethane	Intentional addition(note 7) prohibited.	50-29-3 etc.	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1 ban of Germany

Prohibited Substance Level 1	(Alias: chlordane or heptachlor) chlordanes 1, 2, 4, 5, 6, 7, 8, 8 - octachloro - 2, 3, 3a, 4, 7, 7a - hexahydro - 4, 7 - methano - 1H - indene, 1, 4, 5, 6, 7, 8, 8 - heptachloro - 3a, 4, 7, 7a - tetrahydro - 4, 7 - methano - 1H - indene and a mixture of these related compound	Intentional addition(note 7) prohibited.	57-74-9 etc.	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-xylyl-p-phenylenediamine	Intentional addition(note 7) prohibited.	27417-40-9/70290-05- 0/28726-30-9	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	2-4-6-Tri-tert-butylphenol	Intentional addition(note 7) prohibited.	732-26-3	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1,TSCA PBT Rule
Prohibited Substance Level 1	(Alias: toxaphene) polychloro - 2, 2-dimethyl - 3 - methylidene bicyclo[2. 2. 1] heptane	Intentional addition(note 7) prohibited.	8001-35-2	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias: mirex) dodecachloro (pentacyclo, [5.3.0.02,6,03,9,04,8] decane)	Intentional addition(note 7) prohibited.	2385-85-5	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1, GADSL prohibited substance Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
Prohibited Substance Level 1	(Alias: kelthane or dicofol) 2,2,2-trichloro - 1, 1 - bis (4 - chlorophenyl) ethanol	Intentional addition(note 7) prohibited.	115-32-2	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	Hexachlorobuta - 1, 3 - diene	Intentional addition(note 7) prohibited.	87-68-3	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1 GADSL Prohibited Substance
Prohibited Substance Level 1	(Alias: PFOSF) Perfluoro (octane -1-sulfonyl) = trifluoride	Intentional addition(note 7) prohibited. 1ppm	307-35-7	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1 EU POPs
Prohibited Substance Level 1	Pentachlorobenzene	Intentional addition(note 7) prohibited.	608-93-5	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1 GADSL Prohibited Substance
Prohibited Substance Level 1	(Alias: α - Hexachlorocyclohexan) r-1·c-2·t-3·c-4·t-5·t-6- Hexachlorocyclohexan	Intentional addition(note 7) prohibited.	319-84-6	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias:β-Hexachlorocyclohexan) r-1·t-2·c-3·t-4·c-5·t-6- Hexachlorocyclohexan	Intentional addition(note 7) prohibited.	319-85-7	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias:γ-Hexachlorocyclohexan or Lindane) r-1·c-2·t-3·c-4·c-5·t-6-Hexachlorocyclohexan	Intentional addition(note 7) prohibited.	58-89-9	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1
Prohibited Substance Level 1	(Alias: Chlordecone) Dodecachloropentacyclo [5.3.0.02,6.03,9.04,8] decane-5- on	Intentional addition(note 7) prohibited.	143-50-0	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 1

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Prohibited Substance	Hexabromobiphenyl	Intentional addition(note 7) prohibited.	36355-01-8	Act on the Evaluation of Chemica Substances and Regulation of
Level 1		prombited.		Their Manufacture, etc. Class 1
Prohibited	(Alias:	Intentional addition(note 7)		Act on the Evaluation of Chemica
Substance	Tetrabromodiphenylether)	prohibited.	_	Substances and Regulation of
Level 1	tetrabromo (phenoxy benzene)	•		Their Manufacture, etc. Class 1
Prohibited	Pentabromo (phenoxy	Intentional addition(note 7)		Act on the Evaluation of Chemica
Substance	benzene)(Alias:	prohibited.	_	Substances and Regulation of
Level 1	Pentabromodiphenylether)			Their Manufacture, etc. Class 1
Prohibited	(Alias:	Intentional addition(note 7)		Act on the Evaluation of Chemica
Substance	Hexabromodiphenylether)	prohibited.	_	Substances and Regulation of
Level 1	hexabromo (phenoxy benzene)	1 (Their Manufacture, etc. Class 1
Prohibited Substance	(Alias: Heptabromodiphenylether)	Intentional addition(note 7) prohibited.		Act on the Evaluation of Chemical Substances and Regulation of
Level 1	heptabromo (phenoxy benzene)	prombited.	_	Their Manufacture, etc. Class 1
Prohibited	Endosulfan	Intentional addition(note 7)	115-29-7	Act on the Evaluation of Chemical
Substance		prohibited.	959-98-8	Substances and Regulation of
Level 1			33213-65-9	Their Manufacture, etc. Class 1
Prohibited	Tris(2,3-	Intentional addition(note 7)	126-72-7	Refer to REACH Annex XVII
Substance	dibromopropyl)phosphate	prohibited.		EU-D 79/663/EEC
Level 1	[TRIS] (TBPP)			GADSL prohibited substance
Prohibited	Benzene	1000ppm.	71-43-2	Industrial Safety and Health Act,
Substance				REACH Annex XVII, Montreal
Level 1				Protocol
Prohibited	Tris (4 swinidings) who subject	Intentional addition(note 7)	545-55-1	GADSL prohibited substance REACH Annex XVII
Substance	Tris-(1-aziridinyl) phosphine oxide	prohibited.	040-00-1	Refer to EU-D 83/264/EEC
Level 1	Tris(aziridin-1-yl)phosphane	prombited.		GADSL prohibited substance
	ovido		00000 07 0 -4-	
Prohibited Substance	Soap bark powder (Quillaja Saponaria) and its derivatives	Intentional addition(note 7) prohibited	68990-67-0 etc	REACH Annex XVII
Level 1	that contain saponin	prombited		
	·			DE 1 011 1 20 111
Prohibited Substance	Powder of roots of Helleborus Bilitis and Helleborus niger and	Intentional addition(note 7) prohibited		REACH Annex XVII
Level 1	powder of roots of Veratrum	prombited	_	
201011	alba and Veratrum nigrum			
	Ü	1 () 1 () () ()	550.00.0	DE 1011 1 2011
Prohibited Substance	0-nitrobenzaldehyde	Intentional addition(note 7) prohibited	552-89-6	REACH Annex XVII
Level 1		prombited		
Prohibited	Ammonium sulfide and	Intentional addition(note 7)	12135-76-1 or 12124-99-1	REACH Annex XVII
Substance	ammonium hydrogen sulfide	prohibited		
Level 1	A	1.4 (* 1.11)	10050 00 0 0000 17.5	DEACH A NAME
Prohibited Substance	Ammonium polysulfide	Intentional addition(note 7) prohibited	12259-92-6 or 9080-17-5	REACH Annex XVII
Level 1		prombited		
Prohibited	Volatile bromoacetate esters	Intentional addition(note 7)		REACH Annex XVII
Substance	l	prohibited	_	
Level 1 Prohibited	Methyl bromoacetate	Intentional addition(note 7)	96-32-2	REACH Annex XVII
Substance	Monthly brombacetate	prohibited	00-02-2	TACH AIREA AVII
Level 1				
Prohibited	Ethyl bromoacetate	Intentional addition(note 7)	105-36-2	REACH Annex XVII
Substance	l	prohibited		
Level 1 Prohibited	Propyl bromoacetate	Intentional addition(note 7)		REACH Annex XVII
Substance		prohibited	-	
Level 1				
Prohibited	Butyl bromoacetate	Intentional addition(note 7)	_	REACH Annex XVII
Substance Level 1	l	prohibited		
Prohibited	2-naphthylamine / beta-	Intentional addition(note 7)	GADSL	Industrial Safety and Health Act,
Substance	naphthylamine and its salt	prohibited.	91-59-8 etc.	REACH Annex XVII
Level 1	l	Even if the use is not intentional,		Should be within 0.01% (REACH
	l	the concentration must be 0.01%		Annex XVII)
		or below.	1	GADSL prohibited substance

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Prohibited Substance Level 1	Benzidine and its salts	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	GADSL 92-87-5 etc.	Industrial Safety and Health Act, GADSL prohibited substance 1272/2008/EEC Carcinogen class 2 Canadian Toxic Substances
Prohibited Substance Level 1	4-nitrobiphenyl and its salts	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	GADSL 92-93-3 etc.	Industrial Safety and Health Act REACH Annex XVII , GADSL prohibited substance
Prohibited Substance Level 1	4-Aminodiphenyl and its salts	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	JIG-101 GADSL 92-67-1 2113-61-3	Industrial Safety and Health Act, REACH Annex XVII, JIG-101, GADSL prohibited substance, A specific amine Should be within 0.01% (REACH Annex XVII)
Prohibited Substance Level 1	Arsenic and its compounds other than for GaAs insemiconductor or copper foil bonding on printed circuit boards	Intentional addition(note 7) prohibited. Other than bellow ≦50ppm metal ≦1000ppm wood ≦2ppm	GADSL 7440-38-2 etc.	Council directive related to approximation of member states for the safety of toys 88/378/EEC, REACH Annex XVII, JIG-101 criteria R
Prohibited Substance Level 1	Di-µ-oxo-di-n- butylstanniohydroxyborane Dibutyltin hydrogen borate (DBB)	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	75113-37-0	REACH Annex XVII
Prohibited Substance Level 1	Pentachlorophenol and its salts, esters and compoundss (PCPs)	Use at a concentration of 0.1% or over is prohibited in materials on the market and in ingredients for preparations. Use of preparations that include the substance in 0.1 wt% in total, and products that are treated with preparations containing the substance, wherein the material content of the treated parts exceeds 5 ppm must not be used.	87-86-5 etc.	REACH Annex XVII Chemical goods ban of Germany, GADSL prohibited substance
Prohibited Substance Level 1	Monomethyltetrachlorodiphenyl methane	Intentional addition(note 7) prohibited.	76253-60-6	REACH Annex XVII
Prohibited Substance Level 1	Monomethyldichlorodiphenylme thane	Intentional addition(note 7) prohibited.	81161-70-8	REACH Annex XVII
Prohibited Substance Level 1	DBBT(bromobenzylbromotoluen e)	Intentional addition(note 7) prohibited.	99688-47-8	REACH Annex XVII
Prohibited Substance Level 1	(a) Creosote	Intentional addition(note 7) prohibited	8001-58-9	REACH Annex XVII
Prohibited Substance Level 1	(b) Creosote oil	Intentional addition(note 7) prohibited	61789-28-4	REACH Annex XVII
Prohibited Substance Level 1	(c) Distillate (coal tar), naphthalene oil	Intentional addition(note 7) prohibited	84650-04-4	REACH Annex XVII
Prohibited Substance Level 1	(d) Creosote oil , acenaphthene fraction	Intentional addition(note 7) prohibited	90640-84-9	REACH Annex XVII
Prohibited Substance Level 1	(e) Distillate (coal tar), high- temperature fraction	Intentional addition(note 7) prohibited	65996-91-0	REACH Annex XVII
Prohibited Substance Level 1	(f) Anthracene oil	Intentional addition(note 7) prohibited	90640-80-5	REACH Annex XVII

Prohibited Substance Level 1	(g) Tar acid, carbon from, crude	Intentional addition(note 7) prohibited	65996-85-2	REACH Annex XVII
Prohibited Substance Level 1	(h) Creosote, wood	Intentional addition(note 7) prohibited	8021-39-4	REACH Annex XVII
Prohibited Substance Level 1	(i) Tar oil, alkaline property, low temperature	Intentional addition(note 7) prohibited	122384-78-5	REACH Annex XVII
Prohibited Substance Level 1	Chloroform	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	67-66-3	REACH Annex XVII
Prohibited Substance Level 1	1,1,2-Trichloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	79-00-5	REACH Annex XVII Water pollution control act
Prohibited Substance Level 1	1,1,2,2-Tetrachloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	79-34-5	REACH Annex XVII
Prohibited Substance Level 1	1,1,1,2-Tetrachloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	630-20-6	REACH Annex XVII
Prohibited Substance Level 1	Pentachloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	76-01-7	REACH Annex XVII
Prohibited Substance Level 1	1,1-Dichloroethylene	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	75-35-4	REACH Annex XVII Water pollution control act
Prohibited Substance Level 1	1,1,1-Trichloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	71-55-6	REACH Annex XVII Water pollution control act GADSL prohibited substance, Montreal Protocol; EU-R 2009/1005; US EPA ODS
Prohibited Substance Level 1	Hexachloroethane	Intentional addition(note 7) prohibited. The substance must not be used at a concentration of 0.1% or over for materials and prepared drugs sold for the general public.	67-72-1	REACH Annex XVII
Prohibited Substance Level 1	Diphenyl ether pentabromo derivative C12H5Br5O	Intentional addition(note 7) prohibited. Even if the use is not intentional, the substance must not be used at concentration of 0.1% or over.	_	REACH Annex XVII

Prohibited Substance Level 1	Diphenyl ether octabromo derivative C12H2Br8O	Intentional addition(note 7) prohibited. Even if the use is not intentional, the substance must not be used at concentration of 0.1% or over.	_	REACH Annex XVII
Prohibited Substance Level 1	(1) Nonyl phenol C6H4(OH)C9H19	Marketing and use as substance or substance element of preparations with concentration of 0.1% or more of weight are prohibited	-	REACH Annex XVII
Prohibited Substance Level 1	(2) nonylphenol ethoxylate (C2H4O)nC15H24O	Marketing and use as substance or substance element of preparations with concentration of 0.1% or more of weight are prohibited	_	REACH Annex XVII
Prohibited Substance Level 1	1,2,4-Trichlorobenzene	Marketing and use as substance or substance element of preparations with concentration of 0.1% or more of weight are prohibited	120-82-1	REACH Annex XVII
Prohibited Substance Level 1	Polycyclic-aromatic hydrocarbons (PAH) 1.Benzo(a)pyrene (BaP) 2.Benzo(e)pyrene (BeP) 3.Benzo(a)anthracene (BaA) 4.Chrysen (CHR) 5.Benzo(b)fluoranthene (BbFA) 6.Benzo(j)fluoranthene (BjFA) 7.Benzo(k)fluoranthene (BkFA) 8.Dibenzo(a, h)anthracene (DBAhA) 9.Benzo[ghi]perylene 10.Indeno[1,2,3-cd]pyrene 11.Acenaphthylene 12.Acenaphthene 13.Fluorene 14.Anthracene 15.Phenanthrene 16.Fluoranthene 17.Pyrene 18.Naphthalene	Intentional addition(note 7) prohibited. 1~10 each : <0.2ppm 11~17 total : <5ppm 18 : <2ppm 1~18 total : <5ppm	'50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3 191-24-2 193-39-5 208-96-8 83-32-9 86-73-7 120-12-7 85-01-8 206-44-0 129-00-0 91-20-3	1-8 REACH Annex XVII GADSL Prohibited Substance 1-18 GS MARK(German)
Prohibited Substance Level 1	2-(2-methoxyethoxy) ethanol (DEGME)	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.1 wt% or below.	111-77-3	REACH Annex XVII
Prohibited Substance Level 1	2-(2-butoxyethoxy) ethanol (DEGBE)	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 3 wt% or below.	112-34-5	REACH Annex XVII
Prohibited Substance Level 1	Methylenediphenyldiisocyanate (MDI)	Marketing as an element of preparations that contains 0.1 wt% or more is prohibited	26447-40-5	REACH Annex XVII
Prohibited Substance Level 1	Cyclohexane	Marketing is prohibited when 0.1% or more is contained	110-82-7	REACH Annex XVII
Prohibited Substance Level 1	Ammonium nitrate (AN)	Prohibited from putting on market as a "substance" or "mixture" containing 28% or more of nitrogen to ammonium by weight	6484-52-2	REACH Annex XVII
Prohibited Substance Level 1	Mineral fiber whose fiber diameter is 6µm or less "Aluminosilicate, heat resistant ceramic fiber" and "zirconia aluminosilicate, heat resistant ceramic fiber"	Intentional addition(note 7) prohibited.	_	REACH Annex XVII

Prohibited Substance Level 1	Toluene	Marketing and use as substance or substance element of preparations with concentration of 0.1% or more of weight are prohibited	108-88-3	REACH Annex XVII
Prohibited Substance Level 1	Inorganic ammonium salts	the emission of ammonia from cellulose insulation mixtures or cellulose insulation articles results in a concentration of less than 3 ppm by volume (2,12 mg/m3)	_	REACH Annex XVII
Prohibited Substance Level 1	Bisphenol-A 4,4'-Isopropylidenediphenol	0.02 % (by weight) for Bisphenol A (BPA) present in thermal paper	80-05-7	REACH Annex XVII
Prohibited Substance Level 1	Formaldehyde	Intentional addition(note 7) prohibited. 0.1ppm Airborne concentrations 75 ppm by weight of textile product. When containing in parts or materials, do not exceed 300 ppm for homogeneous materials.	50-00-0	chemical goods ban of Germany, CARB control of California, JIG- 101 criteria R
Prohibited Substance Level 1	(4-Chlorophenyl) cyclopropylmethanone, O-[(4- nitrophenyl)methyl] oxime that has the molecular formula C17H15CIN2O3	Intentional addition(note 7) prohibited.	94097-88-8	Prohibition of Certain Toxic Substances Regulations, 2012 (SOR/2012-285) Published in Canada
Prohibited Substance Level 1	N-nitrosodimethylamine	Intentional addition(note 7) prohibited	62-75-9	Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006- 11-29 Vol. 140, No. 25 GADSL
Prohibited Substance	Yellow phosphorus match	Intentional addition(note 7) prohibited.	12185-10-3	Occupational Health and Safety Act
Level 1 Prohibited Substance	Red Phosphorus	Intentional addition(note 7) to resin prohibited.	7723-14-0	Voluntary control With the object of safe product
Level 1 Prohibited Substance Level 1	Bis(chloromethyl)ether (BCME)	Intentional addition(note 7) prohibited.	542-88-1	Industrial Safety and Health Act, GADSL prohibited substance, Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
Prohibited Substance Level 1	Rubber cement contains benzene (The amount of benzene is more than 5% weight of solvent in the rubber cement (including diluted solution)		_	Occupational Health and Safety Act
Prohibited Substance Level 1	Octamethyl-pyrophosphoramide	Intentional addition(note 7) prohibited.	152-16-9	Poisonous and Deleterious Substances Control Act specific toxic substance
Prohibited Substance Level 1	Plumbane, ethyltrimethyl-	Intentional addition(note 7) prohibited.	1762-26-1	Poisonous and Deleterious Substances Control Act specific toxic substance
Prohibited Substance Level 1	O,O-diethyl-O-4-nitrophenyl phosphorothioate	Intentional addition(note 7) prohibited.	56-38-2	Poisonous and Deleterious Substances Control Act specific toxic substance

Dimethylethylmercapto ethylthiophosphate	Intentional addition(note 7) prohibited.	8022-00-2	Poisonous and Deleterious Substances Control Act specific toxic substance
Dimethyl-(diethylamide-1- chlorocrotonyl)-phosphate	Intentional addition(note 7) prohibited.	13171-21-6	Poisonous and Deleterious Substances Control Act specific toxic substance
Dimethyl para-nitro phenylthio phosphate	Intentional addition(note 7) prohibited.	298-00-0	Poisonous and Deleterious Substances Control Act specific toxic substance
Tetraethyl pyrophosphate	Intentional addition(note 7) prohibited.	107-49-3	Poisonous and Deleterious Substances Control Act specific toxic substance
Monofluoracetates and formulations that contains it	Intentional addition(note 7) prohibited.	144-49-0 etc.	Poisonous and Deleterious Substances Control Act specific toxic substance
Formulations that contains monofluoroacetamide	Intentional addition(note 7) prohibited.	640-19-7	Poisonous and Deleterious Substances Control Act specific toxic substance
Aluminum phosphide and its decomposition promoter	Intentional addition(note 7) prohibited.	20859-73-8	Poisonous and Deleterious Substances Control Act specific toxic substance
Trichlorethylene	Intentional addition(note 7) prohibited Within 0.01% even if it is not intentional	79-01-6	Voluntary control Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 2 Water pollution control act 2037/2000/EEC, US EPA ODS TSCA first10
Tetrachloroethylene	Intentional addition(note 7) prohibited.	127-18-4	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class 2, Environmental Basic Act, Water Pollution Control Act, TSCA first10
Dichloromethane Methylene chloride	Intentional addition(note 7) prohibited.	75-09-2	Environmental Basic Act, Laws and regulations related to classification, packaging, and indication of hazardous substance, Council directive related to approximation of administrative regulations 67/548/EEC, Water pollution control act
Chlorinated or brominated dioxin or furan [group]	Intentional addition(note 7) prohibited 10 ppb(ChemVerbotsV)	GADSL	GADSL prohibited substance, EU regulation related to persistent organic pollutants 850/2004, regulation of hazardous material (UK, Germany)
4,4'-Diaminodiphenylmethane	Intentional addition(note 7) prohibited.	101-77-9	1272/2008/EEC GADSL prohibited substance
1,2-dichloroethane; ethylene dichloride	Intentional addition(note 7) prohibited.	107-06-2	Water pollution control act
1,3-dichloropropene	Intentional addition(note 7) prohibited.	542-75-6	Ecolabel Regulation 1980/2000 Water pollution control act
1,2-Dichloropropane	Intentional addition(note 7) prohibited.	78-87-5	Industrial Safety and Health Act
Cis-1,2-dichloroethylene	Intentional addition(note 7) prohibited.	156-59-2	Water pollution control act
	ethylthiophosphate Dimethyl-(diethylamide-1-chlorocrotonyl)-phosphate Dimethyl para-nitro phenylthio phosphate Tetraethyl pyrophosphate Monofluoracetates and formulations that contains it Formulations that contains monofluoroacetamide Aluminum phosphide and its decomposition promoter Trichlorethylene Dichloromethane Methylene chloride Chlorinated or brominated dioxin or furan [group] 4,4'-Diaminodiphenylmethane 1,2-dichloroethane; ethylene dichloride 1,3-dichloropropene 1,2-Dichloropropane	ethylthiophosphate prohibited. Dimethyl-(diethylamide-1-chlorocrotonyl)-phosphate prohibited. Dimethyl para-nitro phenylthio phosphate Intentional addition(note 7) prohibited. Tetraethyl pyrophosphate Intentional addition(note 7) prohibited. Monofluoracetates and formulations that contains it Promulations that contains monofluoroacetamide Intentional addition(note 7) prohibited. Aluminum phosphide and its decomposition promoter Intentional addition(note 7) prohibited. Trichlorethylene Intentional addition(note 7) prohibited Within 0.01% even if it is not intentional addition(note 7) prohibited. Tetrachloroethylene Intentional addition(note 7) prohibited. Chlorinated or brominated dioxin or furan [group] prohibited. Chlorinated or brominated dioxin or furan [group] Intentional addition(note 7) prohibited. 1,2-dichloroethane; ethylene dichloride Intentional addition(note 7) prohibited. 1,2-dichloropropene Intentional addition(note 7) prohibited. 1,2-Dichloropropane Intentional addition(note 7) prohibited. 1,2-Dichloropropane Intentional addition(note 7) prohibited. Intentional addition(note 7) prohibited.	ethylthiophosphate prohibited. Dimethyl-(diethylamide-1-chlorocrotonyl)-phosphate prohibited. Dimethyl para-nitro phenylthio phosphate lintentional addition(note 7) prohibited. Tetraethyl pyrophosphate lintentional addition(note 7) prohibited. Tetraethyl pyrophosphate lintentional addition(note 7) prohibited. Monofluoracetates and formulations that contains it prohibited. Formulations that contains it prohibited. Formulations that contains it prohibited. Aluminum phosphide and its decomposition promoter lintentional addition(note 7) prohibited. Trichlorethylene lintentional addition(note 7) prohibited. Tetrachloroethylene lintentional addition(note 7) prohibited. Tetrachloroethylene lintentional addition(note 7) prohibited. Tetrachloroethylene lintentional addition(note 7) prohibited. Dichloromethane Methylene chloride lintentional addition(note 7) prohibited. Chlorinated or brominated dioxin or furan [group] prohibited. Chlorinated or brominated dioxin or furan group] lintentional addition(note 7) prohibited. Chlorinated or brominated dioxin or furan group) lintentional addition(note 7) prohibited. 4.4*-Diaminodiphenylmethane lintentional addition(note 7) prohibited. 1.2-dichloroethane; ethylene lintentional addition(note 7) prohibited. 1.3-dichloropropene lintentional addition(note 7) prohibited. 1.3-dichloropropene lintentional addition(note 7) prohibited. 1.2-Dichloropropene lintentional addition(note 7) prohibited. 1.2-Dichloropropene lintentional addition(note 7) prohibited. 1.2-Dichloropropene lintentional addition(note 7) prohibited.

O-ethyl = O-4-nitrophenyl =	Intentional addition(note 7)	2104-64-5	Water pollution control act
,	prohibited.		
Chloromethylmethylether	Intentional addition(note 7) prohibited.	107-30-2	GADSL prohibited substance Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
2-Methoxyethanol	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.5% or below.	109-86-4	GADSL Prohibited Substance Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
Tetrachlorobenzenes	Intentional addition(note 7) prohibited.	GADSL 12408-10-5, 84713-12- 2,etc	GADSL Prohibited Substance Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41) Published in Canada
Tetrafluoromethane	Intentional addition(note 7) prohibited.	75-73-0	GADSL Prohibited Substance Statutory Order no. 552 of 2 July 2002 of the Danish Ministry of the Environment
Chloroethylene (alias: Vinyl chloride), Chloro-1-Ethylene (monomer vinyl chloride)	Intentional addition(note 7) prohibited. 5ppm	75-01-4	GADSL Prohibited Substance 1272/2008 /EEC REACH Annex XVII
Cobalt sulfide	Inclusion of 0.01% or over is prohibited.	10124-43-3	
6-(2-chloroethyl)-6(2- methoxyethoxy)-2,5,7,10- tetraoxa-6- silaundecane; etacelasil	Intentional addition(note 7) prohibited.	37894-46-5	REACH Annex XVII
Phosphoric acid tris (dimethyl phenyl)	Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below.	25155-23-1	REACH Annex XVII
Phosphoric acid tris (2- ethylhexyl)	Intentional addition(note 7) prohibited.	78-42-2	
Tris(2-chloroethyl)phosphate (TCEP)	1,000 ppm or less	115-96-8	REACH Annex XIV: Substances requiring permission Deadline for permit applications: Nov. 21, 2013 Date of prohibition: May 21, 2015
tris(2-chloro-1-methylethyl) phosphate(TCPP)	1,000 ppm or less	13674-84-5	Vermont in USA, prohibited when the total of the three substances stated at the left is 0.1% or over for applications for toys and supplies for children that may be put into the mouth by children.
tris(1,3-dichloro-2-propyl) phosphate(TDCPP)	1,000 ppm or less	13674-87-8	Vermont in USA, prohibited when the total of the three substances stated at the left is 0.1% or over for applications for toys and supplies for children that may be put into the mouth by children.
Hexabromocyclododecane (HBCDD or HBCD) and all major diastereoisomers	75 ppm or below	JIG-101 ANNEX B	REACH regulation JIG-101 criteria R
	phenylphosphonothioate (EPN) Chloromethylmethylether 2-Methoxyethanol Tetrachlorobenzenes Tetrafluoromethane Chloroethylene (alias: Vinyl chloride), Chloro-1-Ethylene (monomer vinyl chloride) Cobalt sulfide 6-(2-chloroethyl)-6(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane; etacelasil Phosphoric acid tris (dimethyl phenyl) Phosphoric acid tris (2-ethylhexyl) Tris(2-chloroethyl)phosphate (TCEP) tris(2-chloro-1-methylethyl) phosphate (TCPP)	phenylphosphonothioate (EPN) Chloromethylmethylether Intentional addition(note 7) prohibited. 2-Methoxyethanol Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.5% or below. Tetrachlorobenzenes Intentional addition(note 7) prohibited. Tetrafluoromethane Intentional addition(note 7) prohibited. Chloroethylene (alias: Vinyl chloride), Chloro-1-Ethylene (monomer vinyl chloride) Cobalt sulfide Inclusion of 0.01% or over is prohibited. 6-(2-chloroethyl)-6(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane; etacelasil Phosphoric acid tris (dimethyl phenyl) Phosphoric acid tris (2-ethylhexyl) Phosphoric acid tris (2-ethylhexyl) Phosphoric acid tris (2-ethylhexyl) Tris(2-chloroethyl)phosphate (TCEP) Itris(2-chloro-1-methylethyl) phosphate(TCPP) Intentional addition(note 7) prohibited. Tris(2-chloro-1-methylethyl) phosphate(TCPP) 1,000 ppm or less Tris(1,3-dichloro-2-propyl) phosphate(TDCPP) Tris(DD or HBCD) and all	phenylphosphonothioate (EPN) prohibited. Chloromethylmethylether Intentional addition(note 7) prohibited. 2-Methoxyethanol Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.5% or below. Tetrachlorobenzenes Intentional addition(note 7) prohibited. Tetrafluoromethane Intentional addition(note 7) prohibited. Chloroethylene (alias: Vinyl chloride) prohibited. Chloroethylene (alias: Vinyl chloride) prohibited. Choroethylene (alias: Vinyl chloride) prohibited. Cobalt sulfide Inclusion of 0.01% or over is prohibited. 6-(2-chloroethyl)-6(2- methoxyethoxy)-2,5,7,10-tetraoxa-6- silaundecane; etacelasii Intentional addition(note 7) prohibited. Even if the use is not intentional, the concentration must be 0.01% or below. Phosphoric acid tris (dimethyl phenyl) phosphate (TCEP) Intentional addition(note 7) prohibited. Tris(2-chloroethyl)phosphate 1,000 ppm or less 115-96-8 Itis(1,3-dichloro-2-propyl) phosphate(TCPP) 1,000 ppm or less 13674-84-5 Hexabromocyclododecane (HBCDD or HBCD) and all

Prohibited Substance Level 1	5-tert-butyl-2,4,6-trinitro-m- xylene (Musk xylene)	1,000 ppm or less	81-15-2	REACH Annex XIV authorization required Application for authorization deadline: January 21, 2013 Sunset date: July 21, 2014
Prohibited Substance Level 1	2,4-dinitrotoluene	1,000 ppm or less	121-14-2	REACH Annex XIV: Substances requiring permission
Prohibited Substance Level 1	Beryllium oxide	1,000 ppm or less	1304-56-9	Customer demands Commercial sales of materials containing REACH Annex XVII: carcinogenic substances banned in EU states
-		Intentional addition(note 7) prohibited.	507-63-1, 678-39-7 865-86-1, 2043-53-0 2043-54-1, 17741-60-5 27905-45-9, 30046-31-2 39239-77-5, 60699-51-6 65510-55-6, 68187-47-3 68391-08-2, 70969-47-0 125476-71-3, 1078712-88-5 1078715-61-3, 71217(CBI) 89419(CBI), 274147(CBI) (CBI):EPA Approval No.	TSCA (SNUR)
Prohibited Substance Level 1	PIP(3:1) (phenol, isopropylated phosphate (3:1),	not detected	68937-41-7	TSCA
	alias Tris (4-isopropylphenyl) phosphate)			
	However, the following applications are excluded (1) Adhesives (2) Glazing and lubricating oils; (3) New and replacement parts in the automotive and aerospace industries; (4) Plastics containing recycledorigin PIP (3:1); (5) Products or articles made from plastics containing PIP(3:1) of recycled origin			
Prohibited Substance Level 1	PCTP Pentachlorobenzenethiol Pentachlorothiophenol	1%	133-49-3	TSCA
Prohibited Substance	1-Bromopropane	Intentional addition(note 7) prohibited	106-94-5	TSCA First10
Level 1 Prohibited Substance	1,4-dioxane	Intentional addition(note 7) prohibited	123-91-1	TSCA First10
Level 1 Prohibited Substance	N-Methylpyrrolidone (NMP)	Intentional addition(note 7) prohibited	872-50-4	TSCA First10
Level 1 Prohibited Substance Level 1	Pigment Violet 29	Intentional addition(note 7) prohibited	81-33-4	TSCA First10
Prohibited Substance Level 1	Perfluorohexane-1-sulphonic acid(PFHxS) and its salts and related substances	Intentional addition(note 7) prohibited 25 ppb for the sum of PFHxS and its salts 1000 ppb for the sum of PFHxS- related substances	-	EU POPs Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture

S	Prohibited Gubstance evel 1		Intentional addition(note 7) prohibited 1 ppm	13560-89-9 135821-74-8 135821-03-3	Singapore Environmental Protection Regulations and Environmental Protection Management Act Canada Prohibition of Certain Toxic Substances Regulations Under discussion to require declaration of inclusion and phase-out schedule POPs (Stockholm Convention)
S	Prohibited Substance Level 1	Perfluorocarboxylic acids (PFCAs) C9–C14 and their salts and related substances	25 ppb for the sum of C9-C14 PFCAs and their salts 260 ppb for the sum of C9-C14 PFCA-related substances	-	REACH Appendix XVII
S	Prohibited Substance evel 1	Perfluorocarboxylic acids (PFCAs) C9–C21 and their salts and related substances	Intentional addition(note 7) prohibited 25 ppb for the sum of C9-C21 PFCAs and their salts 260 ppb for the sum of C9-C21 PFCA-related substances	-	POPs (Stockholm Convention)
S	Prohibited Substance evel 1	UV-328 2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol	Intentional addition(note 7) prohibited 1 ppm	25973-55-1	Singapore Environmental Protection Regulations and Environmental Protection Management Act POPs (Stockholm Convention)
S	Prohibited Substance evel 1	Amitrole	Intentional addition(note 7) prohibited	61-82-5	Singapore Environmental Protection Regulations and Environmental Protection Management Act
S	Prohibited Substance evel 1	Iprodione	Intentional addition(note 7) prohibited	36734-19-7	Singapore Environmental Protection Regulations and Environmental Protection Management Act
S	Prohibited Substance evel 1	Nonylphenol and Nonylphenol Ethoxylates	Intentional addition(note 7) prohibited	84852-15-3 127087-87-0	Singapore Environmental Protection Regulations and Environmental Protection Management Act REACH Appendix XVII
S	Prohibited Substance evel 1	Mineral Oil Aromatic Hydrocarbons MOAH containing 1 to 7 aromatic rings	Less than 0.1% in INK	-	France Mineral Oil Regulation
S	Prohibited Substance evel 1	Mineral Oil Aromatic Hydrocarbons MOAH containing 3 to 7 aromatic rings	Less than 1 ppm in INK	-	France Mineral Oil Regulation
S	Prohibited Substance evel 1	Mineral Oil Saturated Hydrocarbons MOSH containing 16 to 35 carbon atoms	Less than 0.1% in INK	-	France Mineral Oil Regulation

Drobibited	In the electification of CADOL	Befor to CADSI	Defer to CADCI	CADEL
Prohibited	-	Refer to GADSL	Refer to GADSL	GADSL
Substance	(Note 3)	URL:http://www.gadsl.org/		
Level 1	· Substances corresponding to			
	"P"	If you can not identify "D" or "P"		
		because of the unknown end use		
	"P" in "D / P"	and so on, please declare it as a		
		prohibited substance in the form		
	However, the following does not	of prohibited substance		
	correspond to the prohibited	guarantee attached to the Green		
	substances specified this row.	Procurement Guidelines.		
	① prohibited substances level 1			
	other than this row			
	② the substances not			
	correspond to the prohibited			
	substances In ①			
	(below the threshhold ,aplied			
	to the exclusion, and so on)			
	ŕ			
Prohibited	Decabromodiphenylethane	Intentional addition(note 7)	84852-53-9	Canada
Substance	(DBDPE)	prohibited		Prohibition of Certain Toxic Substances Regulations
Level 2				Under discussion to require declaration
				of inclusion and phase-out schedule
				Customer demands
				Confirmation of presence/absence of content
	deadline for	already adopted materials and par	rts :TBD	Content
Prohibited	Perfluorohexanoic acid(PFHxA)	Intentional addition(note 7)	GADSL	REACH Annex XVII
Substance	and its salts and related	prohibited		
Level 2	substances	0.025ppm for the sum of PFHxA		
		and its salts		
		1ppm for the sum of PFHxA		
		related substances		
		already adopted materials and par		
Prohibited	Per- and PolyFluoroAlkyl	Intentional addition(note 7)	GADSL	REACH Annex XVII : under discussion
Substance	Substances	prohibited		US. TSCA, US. States: under discussion
Level 2	(PFAS)(note 8)	Single PFAS: 0.025ppm		Customer demands:
		Total of multiple PFAS: 0.25ppm		Confirmation of presence/absence of
		Total of high molecular weight		content
		PFAS: 50ppm		
	deadline for	already adopted materials and par		
	Except for substances that fall	1,000 ppm or less	Refer to Authorisation List	REACH regulation
Substance	under "Prohibited Substance		https://echa.europa.eu/auth	
Level 2	Level 1",		orisation-list	In principle, the substances are
	the Substances in the list of			prohibited to be used and sold as
	substances included in Annex			substances and preparations
	XIV of REACH ("Authorisation			within the EU region.
	List").			
				Also, the articles contained by this
				substance are obliged to report
				on the substance as SVHC.
				Because it is a substance that is
				evaluated as harmful in the EU, it
				is managed as a prohibited
				substance level 2 from the
	deadline for	already adopted materials and par	rts :TBD	viewpoint of CSR.
	acadiii e loi	, pui	==	

Note 1 For those that are marked JIG-101 ANNEX B or GADSL in the column, see the Lists under Notes 2 and 3 as example substances.

Note 2 JIG-101: Abbreviation of Joint Industry Guidelines; The Guidelines for the Management of Chemical Substances in Products that were issued by JGPSSI (Japan Green Procurement Survey Standardization Initiative) and CEA (Consumer Electronics Association) under the agreement of DEGITALEUROPE (Europe). The guidelines incorporate the latest information on regulations and laws and is categorized into three criteria of R (substances that are subject to existing laws), A (substances to be assessed), and I (substances to be reported). Obtain the latest version from the HP stated below and refer to example substances in Annex B. URL: http://210.254.215.73/jeita_eps/green/green7.htm

Note 3 GADSL: Abbreviation for the Global Automotive Declarable Substance List. Universal list of unified substances to be declared in the automotive industry.

URL: http://www.gadsl.org/

- Note 4 The prohibition o fuse of azo color of European Community is applied to the specific azo color and colorant that generate one of 22 aromatic amines in Appendix B by reduction cutting of the azo group. The threshold level is not applied to color and colorant, but to these amines.
- Note 5 Where the intentional addition of a substance is prohibited but a threshold for the substance is specified, no amount of the substance may be added deliberately, even if such addition does not result in levels exceeding the given threshold.
- Note 6 should be applied when such a case is described in drawing etc.
- Note 7 Intentional Adding is defined as the inclusion of a chemical substance in a part or raw material, regardless of whether or not it is
- Note 8 PFAS are defined as organic fluorine compounds that fall under any of the following (1) and (2).
 - (1) Organic fluorine compounds containing at least 1 carbon-fluorine bond (C-F) (as defined by OECD) (2) Organic fluorine compounds containing at least 1 fully fluorinated alkyl group (-CnF2n+1)

 - (as defined by the proposed TSCA regulations of the U.S. EPA)
 - Inorganic fluorine compounds (Examples: calcium fluoride, hydrogen fluoride, etc.) are not covered.

Appendix 2. Prohibited Substances for Use in Manufacturing Process

17/19

It is the same as the prohibited substances in "Appendix 1."

		bidden for applicable produ	CAS No	Referenced Laws and Regulations, etc (The contents of this column do not limit
Use	Substance	Regulation Value (Note 5)	List of Reference	the prohibited items on the left)
	Di(2-ethylhexyl)phthalate(DEHP) bis(2-ethylhexyl)phthalate (DOP) Dibutyl phthalate (DBP) Benzyl butyl phthalate (BBP)	Intentional addition prohibited Inclusion prohibited when the total of the six substances stated at the left is 0.1% or over.	Substances (Note 1) 117-81-7 84-74-2 85-68-7	REACH Annex XVII JIG-101 Criteria R Use prohibited when the total of the three substances stated at the left is 0.1% or over in the mass of plastic materials in toys and suppl for children. Taiwan CNS 4797 (Toy safety standard) (DEHP(DOP)+(DBP)+(BBP)+(DINP)+(DIDP) +(DNOP)<0.1%
	Di-"isononyl" phthalate (DINP) Di-"isodecyl" phthalate (DIDP) Di-n-octyl phthalate (DNOP)		28553-12-0 / 68515-48-0 26761-40-0 / 68515-49-1 117-84-0	REACH Annex XVII JIG-101 Criteria R Use prohibited when the total of the three substances stated at the left is 0.1% or over fo applications for toys and supplies for children that may be put into the mouth by children. Taiwan CNS 4797 (Toy safety standard) (DEHP(DOP))+(DBP)+(BBP)+(DINP)+(DIDP) +(DNOP)<0.1%
oy/product or children	Di(2-ethylhexyl)phthalate(DEHP) bis(2-ethylhexyl)phthalate (DOP) Dibutyl phthalate (DBP) Benzyl-butyl phthalate (BBP) Diisobutyl phthalate(DIBP)	Applied to plastic material part Prohibition of intentional addition The total on the left is less than 0.1%	117-81-7 84-74-2 85-68-7 84-69-5	REACH Annex XVII Shall not be placed on the market after 7 July 2020 equal to or greater than 0,1 % by weight of the plasticised material in the article
	Mercury (Hg)	migration limits (EN 71-3):<60ppm	7439-97-6	2009/48/EC (EN71-3)
	Cadmium (Cd)	migration limits (EN 71-3):<75ppm	7440-43-9	
	Lead (Pb)	migration limits (EN 71-3): <90ppm	7439-92-1	4
	Chrome (Cr) Barium (Ba)	migration limits (EN 71-3):<60ppm migration limits (EN 71-3):<1000ppm	7440-47-3 7440-39-3	-
	Arsenic (As)	migration limits (EN 71-3):<25ppm	7440-38-2	
	Selenium (Se)	migration limits (EN 71-3):<500ppm migration limits (EN 71-3):<60ppm	7782-49-2	
	Antimony (Sb) Lead and its compounds	90ppm	7440-36-0 JIG-101 ANNEX B	Consumer Product Safety Improvement Act:
	Esta una res compoundo	Weight ppm of surface coating 100ppm Weight ppm of product	GADSL	CPSIA
	Benzene	Intentional addition prohibited. Even if inclusion is not intentional, the concentration must be 5ppm or less.	71-43-2	REACH Annex XVII
batteries	Cadmium and its compounds	Carbon zinc batteries Alkaline batteries Nickel hydrogen recharge- able batteries (except button cells) 10ppm Other batteries 20ppm	JIG-101 ANNEX B	
	Mercury and its compounds	Carbon zinc batteries Alkaline batteries Nickel hydrogen recharge- able batteries (except button cells) 1ppm Zinc air button cells and LR23A 2000ppm Other batteries 5ppm	JIG-101 ANNEX B	Council Directive on packaging and packaging waste (94/62/EC) Batteries Directive 2006/66/EC Batteries law of China ,South Korea and Argentina Customer requirements
	Lead and its compounds	Alkaline manganese batteries (except button cells) 40ppm Carbon zinc batteries Alkaline manganese button cells 1000ppm Other batteries 2000ppm	JIG-101 ANNEX B	
	Di(2-ethylhexyl)phthalate(DEHP); bis(2-ethylhexyl)phthalate (DOP) Dibutyl phthalate (DBP) Benzyl-butyl phthalate (BBP) Diisobutyl phthalate(DIBP)	Applied to plastic material part Prohibition of intentional addition The total on the left is less than 0.1%	117-81-7 84-74-2 85-68-7 84-69-5	REACH Annex XVII Shall not be placed on the market after 7 July 2020 equal or greater than 0.1 % by weight of the plasticised material the article
	Cadmium Mercury Hexavalent chromium Lead	the total content of cadmium, lead, mercury and hexavalent per material $(Cd)+(Hg)+(Cr+6)+(Pb) \leq 100ppm$	JIG-101 ANNEX B	94/62/EC
packing	Specified Polybrominated Diphenylethers (PBDEs)	500ppm	JIG-101 ANNEX B GADSL	EU POPs Annex I
materials	Di(2-ethylhexyl)phthalate(DEHP); bis(2-ethylhexyl)phthalate (DOP) Dibutyl phthalate (DBP) Benzyl-butyl phthalate (BBP) Diisobutyl phthalate(DIBP)	Applied to plastic material part Prohibition of intentional addition The total on the left is less than 0.1%	117-81-7 84-74-2 85-68-7 84-69-5	REACH Annex XVII Shall not be placed on the market after 7 July 2020 equal or greater than 0,1 % by weight of the plasticised material the article

Appendix 4. RoHS Exemption

Materials used by the Hirose Electric Group that fall under exemptions are shown below. Exemptions in the draft gazette published in January 2025 are also included.

Substa	ance	Legal No.	Exempted Applications	Legal expiration dates
Lead and its compounds $6(a)-I$ $6(b)-I$ $6(b)-II$ new $6(b)-III$		6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight	To be determined (to be extended)
		6(b)- I	"Up to 0.4wt% lead contained as an alloying element in aluminium, provided derived from recycling of lead-containing aluminium scrap"	To be determined (to be abolished)
		6(b)- II	Up to 0.4wt% lead contained as an alloying element in aluminium for machining applications	To be determined (to be abolished)
		6(b)-Ⅲ	"Up to 0.3wt% lead contained as an alloying element in cast aluminium alloys, provided derived from recycling of lead-containing aluminium scrap"	To be determined (to be extended)
		6(c)	Copper alloy containing up to 4 % lead by weight	To be determined (to be extended)
		7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	To be determined (to be extended)
7(c)-I 7(c)-II		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	To be determined (to be extended)
		7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	To be determined (to be extended)

		_
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VH		

Config	uration	Tab	le ((Exhibit1)
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[Item to be investigated]
Manufacturer name
Manufacturer part number
Hirose part number

Component parts should be investigated for each homogeneous material. Attach SDS and high-precision analysis report for each component (for each homogeneous material).

[Document	preparation]

(Document preparation)
Company name
Department name
Responsible person name
Person in charge name
TEL
e-mail

Issue date

Part No	Component name	Manufacturer name	Material	Manufacturer part number	1	Weight per	Total		Precision Analysis Report
				, and a second	of used	unit(mg)	Weight(mg)	File name	File name
1							0.000000		
2							0.000000		
3							0.000000		
4							0.000000		
5							0.000000		
6							0.000000		
7							0.000000		
8							0.000000		
9							0.000000		
10							0.000000		
	Copy and add this line if necessary	/.					0.000000		

Total Weight(mg) 0.000000 Units

Configuration Diagram

Chemical substance composition (Exhibit2)

Item to be investigated]	Part No of [Exhibit1]	[Document preparation]
lanufacturer name		Company name
anufacturer part number		Department name
irose part number		Responsible person name
		Person in charge name
		TEL
		e-mail

[Notes]

- 1. If the chemical substances contained are "intentionally added" or "known to be contained," please list all of them.
- 2. If the chemical substances contained are not to be disclosed for reasons such as know-how, if the total content of non-disclosed substances is less than 10%, they may be listed together as "other substances."
 - However, the following substances must be listed without being grouped together as "other substances."

 Substances of Hirose Electric Prohibited Substances Level 1/Level 2, Substances whose disclosure is required by IMDS/chemSHERPA
- 3. List the ingredients after volatilization or reaction. If it is difficult to do so, select "Yes" for volatile or reactive substances and "No" for others in the column for volatilization/
- 4. 4M If the contents of this document are changed due to changes, etc., please resubmit.
- 5. In lieu of this document, you may submit IMDS (our company account: 23616), JAPIA sheet, IPC format, or manufacturer's form.

Chemical substance name (Japanese name)	Chemical substance name (English name)	CAS Registry Number	Content ratio(%)	Volatilization or reaction Presence	Application	Remarks
Copy and add this line if necessary.						
		Total content ratio	0.000			

Please answer so that the total content is 100%.

For Use by Hirose Electric								
Approved	In charge							

ver18

Issue date

Prohibited Substa	ance Gua	arantee ((Exhibit3)	Issue date	ver1
[Item to be investigated]					preparation]
Manufacturer name				Company na	
Manufacturer part number				Department	
Hirose part number				_ ·	person name
If there are multiple items, please enter	er them in the item list.			Person in cha	arge name
				TEL	
				e-mail	
Our company warrants that all items (Pro goods) delivered to the Hirose Electric Gro in the Green Procurement Guidelines, exc Our company warrants that none of the p the above delivered parts and materials e 4M If the contents of this document are c Our company guarantees that the investig and that quality control is carried out in the Inclusion of Prohibited Sul	oup directly or throusept for the prohibited substance except for the prohib hanged due to chargation is carried out ne manufacturing properties.	igh agents or other ed substances listed is listed in the Greer lited substances listed ages, etc., please res through the supplier rocess so that prohib	third parties do below. In Procurement (ed below. submit. er chain to the r	not contain Guidelines ar aw materials	re used in the manufacturing process of s, and that there are no mistakes,
If any substances are contained, enter be For substances subject to the RoHS Direct	_			n the "RoHS	Exemption" column.
Prohibited substance name	CAS Registry Number	Parts contained	Content ratio(%)	RoHS Exemption	Remarks
Copy and add this line if necessary.					
Use of Prohibited Substan If used, enter below. If the regulated value for substances subject to the RoHS Direct	ue is satisfied, enter	"No".			Number of reference guideline versions: 18 Exemption" column.
Prohibited substance name	CAS Registry Number	Parts contained	Content ratio(%)	RoHS Exemption	Remarks
Copy and add this line if necessary.					
TTP, The dad and mile in necessary.					I
Remarks					

Item List

Manufacturer name	Manufacturer part number	Hirose part number
opy and add this line if necessary.		

Research on Halogens (Exhibit4)

[Item to be investigated]

Manufacturer name

Manufacturer part number

Hirose part number

If there are multiple items, please enter them in the item list.

Issue date	
[Document	preparation]
Company na	me
Department	name
Responsible	person name
Person in cha	arge name
TEL	
o mail	

ver18

For items (Products, parts and raw materials) delivered to the Hirose Electric Group directly or through agents or other third parties, please select the appropriate category from (1), (2), (3) below and enter \lor in the appropriate column.

(1) Not contain 5 halogen substances (Br, CI, F, I, At)
(2) Compliant to IEC 61249-2-21 Standard
(3) Neither of the above applies

If you select (3), please state the reason in the remarks column.

IEC 61249-2-21 Standard

(All of the following criteria are met for each homogeneous material)

Br (Bromine): 900 ppm or blew Cl (Chlorine): 900 ppm or blew

Total Br(Bromine) + Total Cl(Chlorine): 1500 ppm or blew

	Y
Remarks	

Item List

Manufacturer name	Manufacturer part number	Hirose part number
Copy and add this line if necessary.		

			Supplier E	nviron	menta	al Co	nservati	ion Sy							
Supplier	Name	Name Date Issued							u III ui	i tilick lilles.					
Approve	ed ^{Title}	Title Assessed Title													
by:	Name										nature Stamp				
(1) Confir	matio	nation for Environmental Conservation Activities													
Certification to		S/NO	ISO 14001, E		fied to :	08140	CE KES	Date of		Certific	ation E	ody	Certi		
ISO 14001 etc Already). 		130 14001, E	CO-ACIIO	IIZI, EC	OSTAC	JE, NEJ,	Certifica	tion				on	NO.	
Certification is															
									Syst	Implem entatio	Score				
a. ○ 1. Promo	oting the	e orga	nization of envir	onmental	manage	ment sy	/stem, such	n as the E	nviror	nmental A	ction	em	n	0	
Stand	ings and	d func	tions of the abov	ve promo	ting orga	nization	are clearly	/ defined.						0	
			of management							e past five	•			0	
4. No corrective guidance or penalty by the relevant competent authority is received in the past five years. (If any, description of the details should be entered below.) 5. Promotional activities of environmental conservation are provided to the employees. 6. Energy saving activities are in place. 7. Relevant environmental laws and regulations (clean air act, water pollution control act, etc.) are identified and complied with. 8. Reduction and recycling of waste are actively sought.															
5. Promo			es of environme vities are in place		ervation	are pro	vided to the	employe	es.					0	
ਨੂੰ 7. Relev	ant envi	ironm	ental laws and re		s (clean a	air act, v	water pollut	tion contro	ol act,	etc.) are				0	
identified			ed with. vcling of waste a	re activel	y sought.									0	
9. Use o	f materi	als ta	king into accoun	t the env	ironment	and bio								0	
			ies about environ is quickly made.	mental re	sponsible	activitie	es of the cor	mpany, su	ich as	use status	of the			0	
					Total	Score								0	
Biodiversity												VES	S/NO	Score	
Is conservation			sity actively sou									112	.,,,	0	
Is conservation	n of bic	diver	sity incorporate	d into the	supply o		0 " 1			, ,	16.11			0	
(2) Confir	matic	on c	of Chemica	ıls Cor	ntrol S		· Continual n	improve	ment	or any sn	ortfall s	snoula	be m	age.	
Certification to		S/NO	- Onomica		fied to :	yotoi		Date of		Certific	ation E	ody	Certi		
ISO 9001 Already	-							Certifica	tion				on	Vo.	
Certification is		untion	results of the o	shook Sh	act (Vorc	ion 4.01	or higher	r)that is	Annov	Ein IAN	AD' Gui	dolino	in +l	ho.	
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onv	vards														
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	npliant.			_											
(3) Confir	matio	on c	of Quality N	/lanag	ement Assess			he Ba	nne	d Sub	stand		Ope	Sco	
												em	ratin	re	
O 1. Is non (selection			the banned subs	stance in	the parts	/ mater	ials selecte	ed confirm	ned in	the desig	n			0	
2. Is the	system	estab	olished to disclos											0	
3. Is the			pliers to control t allable, if the abil			nces co	onfirmed? A	Are the re	cords	tor follow	-up			0	
			banned substan											0	
l I			ing processes c and manufacturir				0 0							0	
6. Is "Co	ncurren	t proc	duction" conduct	ed by the	compan	y and th	ne subcontr	actor?						0	
7. Are re	cords fo	or 1 th	rough 6 above r	etained to	o reasona	ably allo	w demons	tration of	non-in	clusion o	f the			0	
banned	substan	ces?													
			conducted for 1 gement represer						anage	ement?				0	
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