

**Electric Wire & Cable Business Unit
Ibaraki Works
Green Procurement Standards
(Version 5.2)**

**Proterial, Ltd.
Electric Wire & Cable Business Unit Ibaraki
Works**

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1. Electric Wire & Cable Business Unit Ibaraki Works' Involvement in Environmental Conservation

Electric Wire & Cable Business Unit Ibaraki Works is promoting environmental conservation activities based on "Basic Policy on Environmental Protection for Proterial Group" as a member of the Proterial Group.

Basic Policy on Environmental Protection for Proterial Group

Philosophy

As a Proterial Group's corporate vision " Toward a Sustainable Society ", we regard it as crucial to ensure that humanity's shared environmental resources can be passed down to future generations in the best possible condition. Accordingly, throughout our operations we treat environmental considerations as an issue of the highest importance and strive actively to promote environmental protection efforts on both the global and local community levels.

Slogan

- With a deep awareness that environmental protection is major issue for all humanity, fulfill social responsibilities by striving to establish a sustainable society in harmony with the environment regarding it as one of the essential aspects of corporate activity.
- Contribute to society by developing highly reliable technologies and products in response to needs for environmental protection and the limited nature of resources.

Business Conduct Guidelines

1. Compliance with environmental laws and regulations, and prevention of pollution

Comply with all applicable laws and regulations concerning environmental issues on all levels, from international laws to national, regional, and local pacts. Establish voluntary environmental standards as needed in order to assure compliance.

Identify potential environmental problems and take action to prevent pollution. In the event that environmental problems have happened, take appropriate countermeasures to minimize environmental impact.

2. Maintenance of environmental organizational structure and enhancement of environmental supervision

Maintain an organizational structure that includes leadership by an executive responsible for managing environmental issues, as well as an underlying administrative structure. Promote environmental protection activities by applying voluntary environmental standards and establishing clear environmental-related goals. Additionally, strive to continually improve our environmental management through confirming that our environmental protection activities are being carried out in an adequate, effective, and proper manner.

3. Promotion of global manufacturing with consideration of LCA (Life Cycle Assessment)

Endeavor to reduce the environmental burden at entire life cycle, including R&D, product design, manufacture, distribution, sale, use, and disposal.

Promote the following as global manufacturing priorities: environmentally conscious products in society, prevention of global warming, conservation and recycling of resources, chemical management, as well as conservation of biodiversity.

4. Environmental consideration at the sites all over the world

Consider environmental impact in the areas around our manufacturing sites, and strive to carry out policies responsive to the requirements and needs of the local communities.

5. Education and training to increase environmental awareness

Educate and train employees about environmental protection and importance of compliance with environmental laws and regulations to raise employees' awareness of environment with a broad perspective.

6. Information disclosure

Promote positive communication through the disclosure of information regarding environmental protection activities to stakeholders, and strengthen the mutual understanding and collaborative relationship.

Formulated on April 2010
Revised on December 2016
Revised on January 2023

2. Purpose and Scope of Application of Electric Wire & Cable Business Unit Ibaraki Works' Green Procurement Standards

2.1 Purpose

Electric Wire & Cable Business Unit Ibaraki Works is managing the procurement product along Proterial Group's Green Procurement Guidelines. However, Electric Wire & Cable Business Unit Ibaraki Works establishes Electric Wire & Cable Business Unit Ibaraki Works Green Procurement Standards (hereinafter referred to as the "Standards") specialized for Electric Wire & Cable Business Unit Ibaraki Works' products to meet the demands of the entire electrical and electronic equipment industry as manufacture of Electric Wires and Cables.

The purpose of the standards is to clarify the management standards to prohibit, reduce and control the chemical substances contained in the items delivered by suppliers to make up Electric Wire & Cable Business Unit Ibaraki Works' products.

In addition, the standards have been continuously operated since Hitachi Metals, Ltd. Advanced Components & Materials Division Ibaraki Works Green Procurement Standards HKS01 (Version 4.2).

2.2 Scope of Application

The Standards is applied to the items delivered by suppliers, such as raw materials, parts, partially-finished products, finished products, and packing materials that compose Electric Wire & Cable Business Unit Ibaraki Works' products.

3. Control of Chemical Substances in Delivered Items

3.1 Electric Wire & Cable Business Unit Ibaraki Works' Voluntarily Controlled Chemical Substances

Electric Wire & Cable Business Unit Ibaraki Works, as per Table 1 Electric Wire & Cable Business Unit Ibaraki Works' Voluntarily Controlled Chemical Substances, divides chemical substances into two categories, "Prohibited Substances" and "Controlled Substances," and according to these categories, sorts out information on chemical substances contained in delivered items.

Table 1 Electric Wire & Cable Business Unit Ibaraki Works' Voluntarily Controlled Chemical Substances

Classification	Controlled substances	Main law/regulation
Level A Prohibited Substances Group	Chemical substances that are banned by domestic and/or international laws and regulations, and prohibited from being included in the items (including packing materials) delivered to Electric Wire & Cable Business Unit Ibaraki Works. However, this shall not apply in the case that the content of the substance is below the legally specified limit, or if application is legally permitted in a limited way, or if the inclusion is accepted by a request of Electric Wire & Cable Business Unit Ibaraki Works. See Attached Table 1 Level A Prohibited Substance Group List in Appendix 1 for details.	See Attached Table 1 Level A Prohibited Substance Group List in Appendix 1.
Level B Controlled Substances Group	Chemical substances which are not restricted to be contained in delivered items, but these are substances that are likely to be banned or restricted by law in the near future, or require monitoring and control of their status of use according to domestic and/or international laws and regulations, and are given consideration to appropriate recycling and disposal processes. Also included are the substance groups which may be prohibited to be contained	See Attached Table 2 Level B Controlled Substance Group List in Appendix 1.

	in delivered items depending on the applications or customers. See Attached Table 2 Level B Controlled Substances Group List in Appendix 1 for details.	
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However, due to applications to which legal restrictions apply or trends in industry practices, specified details (category, substance group, control levels, etc.) may differ from the above by delivered items. Different handling procedures are shown in Section 3.2.

3.2 Handling of Specifications Different from Those Specified in the Standards

In Electric Wire & Cable Business Unit Ibaraki Works, the specification is based on the Standards in principle, but the following documents will be used in some cases:

(1) Application of “Common Product Environment Procurement Specification”

“Common Product Environment Procurement Specification” (hereinafter referred to as the “Common Specification”) may be issued for the items with common materials, types or applications. For each of applicable items, a specific “Common Procurement Specification Number” is assigned for making a purchase order or quoted in a document such as individual procurement specification and etc. In this case, the Common Specification takes precedence over the Standards. The supplier shall follow the Common Specification with the assigned number.

(2) Application of “Procurement Specification”

There are cases in which an individual “Procurement Specification” (hereinafter referred to as the “Individual Specification”) is used. The Individual Specification takes precedence over the Standards and Common Specification. The supplier shall follow the Individual Specification if it is issued.

(3) Application of Other Documents

There are cases other than the above in which specifications are separately made with particular documents or drawings. In such cases, the supplier shall follow the specified documents or drawings.

4. Request to Suppliers

4.1 Contract Conclusion

Prior to the initial delivery, the supplier is requested to conclude a “Basic Contract for Materials Transaction” or a “Memorandum Concerning Chemical Substances in Purchased Materials.”

4.2 Submission of Information on Chemical Substances Included in Delivered Items

With regard to individual delivered items, Electric Wire & Cable Business Unit Ibaraki Works requires the submission of four documents and data (hereinafter referred to as the “Information on Chemical Substances Included”) as shown below to identify and control the chemical substances included (banned and controlled material group) specified in the Standards or the Common Specification or Individual Specification described in Section 3.2.

(1) Warranty of Non-inclusion Concerning Chemical Substances in Delivered Items

(2) Composition Data

(3) Analysis Report

(4) Safety Data Sheet (SDS)

4.2.1 Warranty of Non-inclusion Concerning Chemical Substances in Delivered Items (hereinafter referred to as the “Warranty of Non-inclusion”)

From the perspective of quality assurance, the non-inclusion of the specified groups of prohibited substances shall be guaranteed. The supplier requires the submission of a “Warranty of Non-inclusion” in the designated form.

The supplier shall submit the Warranty of Non-inclusion according to the Common or Individual Procurement Specification in 3.2, whichever applicable.

However, when satisfying our works requirements, we may also approve suppliers' submission by their own style etc.

4.2.2 Composition Data

To ensure the content and density of chemical substances included in delivered items, the supplier requires the submission of the Composition Data, which shall, in principle, be formatted in accordance with the CMP Consortium^{*1} standard information transfer scheme "chemSHERPA"^{*2}. “chemSHERPA-CI” should include composition information. “chemSHERPA-AI” should include compliance assessment information and composition information. Submission with a tool such as JAPIA sheet^{*3} questionnaire or registration with a green procurement system may be requested depending on the department.

4.2.3 Analysis Data

The analysis data shall be submitted as the evidence for the non-inclusion of ten substances regulated by RoHS.

(1) Subject substances

Table 3 Analysis Subject Substances List (○: Submission required; —: Submission not required)

Material	Cadmium (Cd)	Lead (Pb)	Mercury (Hg)	Hexavalent chromium (Cr (VI))	PBB	PBDE	DEHP (DOP), DBP, BBP, DIBP
Other than below (plastic, inc, paint, rubber, etc.)	○	○	○	○	○	○	○
Metal, glass, ceramic	○	○	○	○	—	—	—

(2) Analysis method

Use an analysis method in accordance with IEC62321^{*4}.

Confirm “complete dissolution” of analysis samples in the detail analysis.

4.2.4 SDS (Safety Data Sheet)

If the issue of SDS^{*5} is required for the delivered item according to the law, SDS shall be submitted in accordance with GHS^{*6}.

^{*1} CMP Consortium (Chemical and circular Management Platform Consortium): <https://cmp-consortium.com/english>

^{*2} chemSHERPA : A format for communicating information of chemical substances which CMP Consortium provides. chemSHERPA-CI is for chemical substances contained in chemical goods, chemSHERPA-AI is for those contained in articles. <https://cmp-consortium.com/english/chemsherpa/tool>

^{*3} JAPIA sheet: JAPIA Sheet is a form agreed in the JAPIA Sheet Liaison Group including the Japan Automobile Parts Manufacturers Association (JAPIA) for the purpose of using it to investigate the materials and substances contained in products to comply with environmental regulations. <https://www.japia.or.jp/work/kankyoku/japiasheet/>

^{*4} IEC62321 Determination of certain substances in electrotechnical products (Each part's latest edition)

^{*5} Delivered items in the form of gas, liquid, powder and granularity (e.g.: gas, solvent, ink, adherent, additive, resin, compound)

^{*6} GHS: The Globally Harmonized System concerning the category and labeling of chemical substances

4.3 Changes in Control

- (1) In the event that there are any changes in the materials, production methods, operating processes, specifications, or manufacturing facility/location of delivered items, the supplier shall submit beforehand an “Application for Change and Approval Notice” detailing all required information including reasons for the change, along with the updated “Information on Chemical Substances Included.”

The item that has been subjected to changes shall not be delivered until the changes are approved as described above.

- (2) The supplier shall notify all other changes to previously reported chemical substances immediately to Electric Wire & Cable Business Unit Ibaraki Works and seek appropriate instructions.

In particular, the suppliers are asked to submit notice as quickly as possible (within 48 hours) upon detecting the presence of any prohibited substances.

5. Other Requirements for Delivered Items

Electric Wire & Cable Business Unit Ibaraki Works asks the suppliers to cooperate in the following environmental activities in accordance with Proterial Group Green Procurement Guidelines.

- (1) The environmental activities of suppliers
- (2) The reducing the environmental burden of procured products

(1)The environmental activities of suppliers

(a) Items related to environmental certifications

■ Acquisition of the ISO 14001 certification or other external certifications approved by Proterial

- 1) Already obtained the ISO 14001 certification.
- 2) Already obtained another EMS certification.
- 3) Facilitating or have finalized a plan to acquire external certifications including ISO 14001.

(b) Items related to endeavors for Green Procurement

■ Status of planning Green Procurement

- 1) Implementing Green Procurement.
- 2) Planning to implement Green Procurement.

(c) Items related to environmental activities (20 items)

■ Corporate philosophy and policy

- 1) Have a corporate policy for environmental protection
- 2) Setting environmental guidelines to ensure continuous improvement in the prevention of global warming, the cyclical use of resources, and the preservation of the ecosystem.
- 3) The company's environmental policy is committed to observing legal restrictions.
- 4) Company environmental policy is known to all employees and available to any third party.

■ Plan and organization

- 5) Have a goal/target for environmental protection.
- 6) Assigning specific organizations/persons to carry out relevant responsibilities toward the goal/target.
- 7) Have an implementation plan to achieve the goal/target.

■ Environment assessment/system

Control and assess the following items in the manufacturing process to strive for improvement:

- 8) Reducing water pollution.
- 9) Reducing air pollution.
- 10) Reducing noise and vibration.
- 11) Treating waste properly and reducing the amount of waste disposal.
- 12) Reducing energy consumption (electricity, gas, fuel, etc.).
- 13) Purchasing raw materials to reduce environmental burdens.
- 14) Reducing the use and discharge of hazardous chemical substances.
- 15) Have a product assessment program.
- 16) Have a systematic plan for emergencies.

(1) The environmental activities of suppliers

17) Have any internal environment audit program.

■ Provision of education, training, and information

18) Implementing an environmental education program.

19) Implementing training for personnel engaged in work that might significantly affect the environment.
Have a list of such personnel.

20) Providing information related to environmental protection.

(d) Manufacturing process information

■ Understanding the use of ozone-layer-depleting substances in the manufacturing process

1) Used in the product manufacturing process.

2) Not used in the product manufacturing process.

3) Under survey.

(2) The reducing the environmental burden of procured products

(a) Reducing the environmental burden of delivered products (12 items)

Regarding products the Proterial Group procures from suppliers, suppliers are requested to comply with the items below. Suppliers are also requested to make the same considerations for raw materials and parts that they procure themselves.

■ Resource saving

1) Making an effort to reduce weight and size.

2) Using recycled parts or resources (recycled material content rate).

3) Taking into consideration product durability improvement.

4) Endeavoring to properly use water.

■ Energy saving

5) Taking into consideration energy saving during use/stand-by time (reduction rate of energy).

■ Recycling

6) Collecting and recycling products (recycling rate).

7) Using uniform and standardized materials.

8) Considering ease of disassembly and sorting.

■ Packaging materials

9) Reducing packaging materials and considering collection, reuse, and recycling.

■ Provision of information

10) Providing environmental information related to products.

■ Preservation of ecosystems

11) Endeavoring to reduce the burden on ecosystems

12) Endeavoring to properly use chemical substances.

Appendix 1 List of Electric Wire & Cable Business Unit Ibaraki Works' Voluntarily Controlled Chemical Substances

Attached Table 1 (1/3) Level A Prohibited Substances Group List

No.	Name of chemical substance (group)	Limit set (Max. allowable value)	Related law/regulation
1	Cadmium and its compounds *1, *5	100 ppm* ² 100 ppm (packing materials) * ³	• RoHS Directive (EU): 2011/65/EU • Directive on Packaging and Packaging Waste (EU)
2	Hexavalent chromium compounds *1	1,000 ppm* ² 100 ppm (packing materials) * ³	• RoHS Directive (EU): 2011/65/EU • Directive on Packaging and Packaging Waste (EU)
3	Lead and its compounds *1, *5	1,000 ppm* ² 100 ppm (packing materials) * ³	• RoHS Directive (EU): 2011/65/EU • Directive on Packaging and Packaging Waste (EU)
4	Mercury and its compounds* ¹	1,000 ppm* ² 100 ppm (packing materials) * ³	• RoHS Directive (EU): 2011/65/EU • Directive on Packaging and Packaging Waste (EU) • Minamata Convention on Mercury
5	Polybromobiphenyl (PBB group)	1,000 ppm	• RoHS Directive (EU): 2011/65/EU • REACH regulated substances (Appendix XVII)
6	Polybromodiphenyl ether group (PBDE group) (Including decaBDE* ⁶)	Intentional use prohibited, and 1,000 ppm	• RoHS Directive (EU): 2011/65/EU • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class I Specified Chemical Substances) • REACH regulated substances (Annex XVII) • US / TSCA(PBT)
7	Tri-substituted organostannic compounds • Bis (tributyltin) = Oxide (TBTO) (CAS No. 56-35-9) • Tributyltin compounds (TBT) • Triphenyltin compounds (TPT) • Other tri-substituted organostannic compounds	Intentional use prohibited, and 1,000 ppm* ²	• REACH regulated substances (Annex XVII) • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Class I Specified Chemical Substances: TBTO Class II Specified Chemical Substances: TBT, TPT groups
8	Polychlorinated biphenyl group (PCB group) and specified alternative* ⁷	Intentional use prohibited	• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class I Specified Chemical Substances) • Stockholm Convention on Persistent Organic Pollutants (POPs) • REACH regulated substances (Annex XVII)
9	Polychlorinated terphenyls group (PCT group)	Intentional use prohibited	• REACH regulated substances (Annex XVII)
10	Polychlorinated naphthalene (with 1 or more chlorines)	Intentional use prohibited	• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class I Specified Chemical Substances)
11	Short-chain paraffin chloride (with a carbon chain length between 10 and 13)	Intentional use prohibited	• Stockholm Convention on Persistent Organic Pollutants (POPs) • REACH regulated substances/candid substances for approval by REACH (SVHC) • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class I Specified Chemical Substances)
12	Asbestos group	Intentional use prohibited, and 1,000 ppm	• Industrial Safety and Health Act Enforcement Ordinance (Japan, 09/01/2006) • REACH regulated substances (Annex XVII)
13	Specified azo dyes/pigments* ⁸	30ppm/part (as specified amines)	• REACH regulated substances (Annex XVII)
14	Ozone layer depleting substances	Intentional use prohibited	• Montreal Protocol, Classes I and II substances
15	Radioactive substances	Intentional use prohibited	• Act Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc • Act on the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors
16	Formaldehyde (CAS No.50-00-0)	Intentional use prohibited* ⁹	• US/California State: CARB regulation • US Federal Law 111-199/TSCA • DE/ ChemVerbotsV • REACH regulated substances (Annex XVII)
17	Perfluorooctane sulfonate (PFOS) and its compounds	Intentional use prohibited, and PFOS and their salts: 0.025 ppm The sum of PFOS-related substances: 1ppm	• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances) • Stockholm Convention on Persistent Organic Pollutants (POPs) • EU POPs Regulation (EU) 2019/1021

Attached Table 1 (2/3) Level A Prohibited Substances Group List

No.	Name of chemical substance (group)	Limit set (Max. allowable value)	Major applicable law/regulation
18	Specified benzotriazole (2- (2H-1, 2, 3-benzotriazole -2-yl)-4, 6-bis-tert-dimethylethyl) (CAS No.3846-71-7)	Intentional use prohibited	• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances)
19	Dimethyl fumarate (CAS No.624-49-7)	Intentional use prohibited* ⁹	• REACH regulated substances (Annex XVII)
20	Dibutyltin compounds (DBT) * See Appendix Table 9 for applicable substances.	per material 1,000 ppm* ²	• REACH regulated substances (Annex XVII)
21	Cobalt chloride (CAS No.7646-79-9)	Intentional use prohibited	• REACH regulated/candidate substances for approval by REACH (SVHC)
22	Hexabromocyclododecane (HBCDD) * See Appendix Table 6 for applicable substances	Intentional use prohibited, and 75ppm	• REACH approved substances • Stockholm Convention on Persistent Organic Pollutants (POPs) • EU POPs Regulation (EU) 2019/1021 • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2014/04)
23	Perfluorooctanoic acid (PFOA) and its salts and related substances* See Appendix Table 7 for applicable substances.	Intentional use prohibited, and PFOA and their salts: 0.025ppm Total of PFOA's: 1 ppm	• Stockholm Convention on Persistent Organic Pollutants (POPs) • EU POPs Regulation (EU) 2019/1021 • US / TSCA (SNUR) • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2021/10)
24	Polycyclic aromatic hydrocarbon group (PAHs) * See Appendix Table 2, No. 50 for applicable substances.	Intentional use prohibited, and on rubber or plastic part of the article Each 1 ppm	• REACH regulated substances (Annex XVII)
25	Hexachlorobenzene (CAS No. 118-74-1)	Intentional use prohibited, and 10ppm	• Stockholm Convention on Persistent Organic Pollutants (POPs) • EU POPs Regulation (EU) 2019/1021 • Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances)
26	Bis (2-ethylhexyl) phthalate (DEHP(DOP))(CAS No. 117-81-7)	1,000 ppm in homogeneous material 1,000 ppm (packing materials) *4	• REACH approved substances (Annex XIV) • REACH regulated substances (Annex XVII) • “RoHS Directive (EU) : 2011/65/EU” COMMISSION DELEGATED DIRECTIVE (EU) 2015/863
27	Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	1,000 ppm in homogeneous material 1,000 ppm (packing materials) *4	
28	Dibutyl phthalate (DBP) (CAS No. 84-74-2)	1,000 ppm in homogeneous material 1,000 ppm (packing materials) *4	
29	Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	1,000 ppm in homogeneous material 1,000 ppm (packing materials) *4	
30	Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS No.68937-41-7)	Intentional use prohibited, and 1000ppm	• US / TSCA(PBT)
31	Pentachlorothiophenol (PCTP) (CAS No.133-49-3)	Intentional use prohibited	• US / TSCA(PBT)

Attached Table 1 (3/3) Level A Prohibited Substances Group List

No.	Name of chemical substance (group)	Limit set (Max. allowable value)	Major applicable law/regulation
32	Perfluorocarboxylic acids containing 9 to 21 carbon atoms in the chain (C9-C21 PFCAs), their salts and C9-C21 PFCA-related substances	<C9-C14 PFCA> Intentional use prohibited, and The sum of C9-C14 PFCAs and their salts: 0.025 ppm The sum of C9-C14 PFCA-related substances: 0.26 ppm	- REACH regulated substances (Annex XVII) - Stockholm Convention on Persistent Organic Pollutants (POPs)
		<C15-C21 PFCA> Intentional use prohibited	Stockholm Convention on Persistent Organic Pollutants (POPs)
33	Perfluorohexane sulfonic acid (PFHxS), its salts, and PFHxS-related compounds	Intentional use prohibited, and PFHxS and their salts: 0.025 ppm The sum of PFHxS -related substances: 1ppm	- Stockholm Convention on Persistent Organic Pollutants (POPs) - EU POPs Regulation (EU) 2019/1021 - Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2024/02) - Swiss Chemical Risk Reduction Ordinance (ORRChem) - REACH regulated substances/candid substances for approval by REACH (SVHC)
34	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene (“Dechlorane Plus”™) covering any of its individual anti- and syn-isomers or any combination thereof (CAS No.13560-89-9, 135821-03-3, 135821-74-8)	Intentional use prohibited, and 1ppm	- REACH regulated substances/candid substances for approval by REACH (SVHC) - Stockholm Convention on Persistent Organic Pollutants (POPs) - EU POPs Regulation (EU) 2019/1021 - Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2025/02)
35	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.25973-55-1)	Intentional use prohibited, and 1ppm	- REACH approved substances (Annex XIV) - Stockholm Convention on Persistent Organic Pollutants (POPs) - EU POPs Regulation (EU) 2019/1021 - Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2025/02)
36	Medium-chain paraffin chloride (MCCPs) (with a carbon chain length between 14 and 17)	Intentional use prohibited	- Stockholm Convention on Persistent Organic Pollutants (POPs) - REACH regulated substances/candid substances for approval by REACH (SVHC)
37	“Law concerning the examination and regulation of manufacture etc., of chemical substances (Japan),” (Class 1 specified chemical substances)	Intentional use prohibited	
38	Prohibition Substances of Manufacturing, etc. of “Industrial Safety and Health Law (Japan)”	Intentional use prohibited	
39	A specific toxic substance of “Poisonous and Deleterious Substances Control Act (Japan)”	Intentional use prohibited	

Attached Table 2 (1/2) Level B Controlled Substances Group List

No.	Name of chemical substance (group)	Remarks (related law/regulation, etc.)
1	Diantimony trioxide (Sb ₂ O ₃)	Industrial Safety and Health Act, Specified Chemical Substances (Class II)
2	Antimony and its compounds (excluding Sb ₂ O ₃) * ¹	
3	Arsenic and its compounds* ¹	
4	Beryllium and its compounds* ¹	
5	Nickel and its compounds (excluding alloys)	REACH regulated substances (Annex XVII)
6	Selenium and its compounds* ¹	
7	Brominated flame retardants (excluding PBB group, PBDE group, HBCDD, TBBP-A and DBDPE) * See See Appendix Table 10 for applicable substances.	JS709, IPC-04101 and IEC61249-2-21
8	Polyvinyl chlorides (PVCs) and its mixture, its copolymer	JS709
9	Di-isononyl phthalate (DINP) (CAS No. 28553-12-0, 68515-48-0)	- REACH regulated substances (Annex XVII) - US California state Proposition 65

Attached Table 2 (2/2) Level B Controlled Substances Group List

No.	Name of chemical substance (group)	Remarks (related law/regulation, etc.)
10	Di-normal octyl phthalate (DNOP) (CAS No. 117-84-0)	• REACH regulated substances (Annex XVII)
11	Di-isodecyl phthalate (DIDP) (CAS No. 26761-40-0, 68515-49-1)	• REACH regulated substances (Annex XVII) • US California state Proposition 65
12	Phthalate esters other than this table's No.9-11 and attached table's No.26-29	
13	Dioctyltin compounds (DOT)	• REACH regulated substances (Annex XVII)
14	Disubstituted organotin compounds (excluding DBT and DOT)	
15	Specified chlorine flame retardants • Tris(2-chloroethyl) phosphate (TCEP) • Tris(2-chloro-1-methylethyl) phosphate (TCPP) • Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) * See Appendix Table 8 for applicable substances	• US Vermont state regulation (ACT0085) • REACH regulated and approved substances (TCEP)
16	Specified chlorine flame retardant (excluding TCEP, TCPP, TDCPP and Dechlorane Plus)	• JS709, IPC-04101 and IEC61249-2-21
17	Fluorine greenhouse gases (HFC, PFC, SF6)	• EU Directive (EC) No.842/2006
18	Cobalt and its compounds (excluding cobalt chloride)	• Industrial Safety and Health Act (Indication of Name, etc., and Class II Specified Chemical Substances)
19	Benzene (CAS No. 71-43-2)	• Industrial Safety and Health Act, Specified Chemical Substances (Class II)
20	4,4'-isopropylidenediphenol (bisphenol A)	• REACH regulated substances/candidate substances for approval by REACH (SVHC) • REACH regulated substances (Annex XVII) • US California state Proposition 65
21	Tetrabromobisphenol A (TBBP-A) (CAS No.79-94-7)	• RoHS Directive (EU): 2011/65/EU (Substances for which restrictions are being studied) • REACH regulated/candidate substances for approval by REACH (SVHC)
22	Decabromodiphenyl ethane (DBDPE) (CAS No.84852-53-9)	• Canadian Environmental Protection Act (CEPA) Part 2 of Schedule 1 • REACH regulated/candidate substances for approval by REACH (SVHC) • AUS / Industrial Chemicals Environmental Management Standard (ICHEMS)
23	Undecafluorohexanoic acid (PFHxA), its salts and related substances	• REACH regulated substances (Annex XVII)
24	Bisphenols and bisphenol derivatives (excluding bisphenol A) * See Appendix Table 11 for applicable substances	• Additional evaluation substance of REACH regulated substances (Annex XVII)
25	Per- and polyfluoroalkyl substances (PFAS) (Excluding the following specific PFAS: Attached Table1's No.17 PFOS, No.23 PFOA, No.32 C9-C21 PFCA, No.33 PFHxS, Attached Table2' No.23 PFHxA, No.30 SVHC (PFBS, GenX, etc.))	• Additional evaluation substance of REACH regulated substances (Annex XVII) • US / TSCA Section 5(SNUR), Section 8(a)(7)(Reporting and Recordkeeping Requirements) • US/Maine State: LD1537
26	Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5), dodecamethylcyclohexasiloxane (D6)	• REACH regulated/candidate substances for approval by REACH (SVHC) • REACH regulated substances (Annex XVII)
27	Long-chain paraffin chloride (LCCPs) (with a carbon chain length over 17)	• Chlorinated paraffins not falling under Annex A of the Stockholm Convention (SCCPs, MCCPs)
28	REACH/restriction substances * See Appendix Table 2 for applicable substances.	• REACH regulated substances (Annex XVII)
29	REACH/authorization substances* ¹⁰ * See Appendix Table 3 for applicable substances.	• REACH approved substances (Annex XIV)
30	Candidate substances for approval by REACH (SVHC)* ¹⁰ * See Appendix Table 4 for applicable substances.	
31	chemSHERPA declarable substances* ¹¹	The latest version of substance list at the time of request for survey

Remarks on Attached Tables 1 and 2

- *1: Metal includes its alloys, with the exception of nickel alloys.
- *2: Specified value as metal element content
- *3: Packing materials: No more than 100 ppm in a total of 4 substances (cadmium, hexavalent chromium, lead and mercury)
- *4: Packing materials: No more than 1000 ppm in a total of 4 substances (DEHP, BBP, DBP and DIBP)
- *5: Refer to Appendix table 1 for the applications of cadmium, lead and their compounds excluded from RoHS directive.
- *6: Deca-BDE (decabromodiphenylether) is included.
- *7: The specified alternatives for the PCB group are listed below.
 - 1) Mono methyl tetrachloro diphenylmethane (CAS No. 76253-60-6)
 - 2) Mono methyl dichloro diphenylmethane (CAS No. 81161-70-8)
 - 3) Mono methyl dibromo diphenylmethane (DBBT) (CAS No. 99688-47-8)
- *8: Azo-dyes/pigments forming specified amines (Appendix table 5)
- *9: Laws and regulations set limits, but different from lead that exists in the nature, as there is low possibility to include the substance except for intentional use, the substance is set to “Intentional use prohibited”
- *10: REACH regulated and approved substances are also candidate substances for approval (SVHC).
- *11: Declarable substances regulated by chemSHERPA
 - Substances to which the following laws and industry standards apply are included:
 - 1. Japan Chemical Examination Law/Type 1 specified chemical substances
 - 2. Toxic Substances Control Act (TSCA)(Section 6)
 - 3. ELV directive 4.RoHS directive 5.POPs regulation Annex I
 - 6. REACH SVHC (authorization substance candidates) and Annex XIV(authorization substance)
 - 7. REACH Annex XVII(Restricted substances)
 - 8. EU (MDR) Annex I 10.4
 - 9. China RoHS 10.GADSL 11. IEC62474
 - For details, see the following document and list:
chemSHERPA declarable substance handbook and chemSHERPA declarable substance reference list (Latest version)

Appendix Tables

Appendix table 1: Applications of cadmium, lead and their compounds excluded from RoHS Directive

Appendix table 2: REACH restricted substances (Annex XVII)

Appendix table 3: REACH approved substances (Annex XIV)

Appendix table 4: Candidate substances for approval by REACH (SVHC)

Appendix table 5: List of specified amine (products from decomposition of 1- or more azo groups)

Appendix table 6: List of prohibited substances of Hexabromocyclododecane (HBCDD)

Appendix table 7: List of prohibited substances of Perfluorooctanoic acid (PFOA) and its saline and ester groups

Appendix table 8: Specified chlorine flame retardants (TCEP, TCPP, TDCPP)

Appendix table 9: List of Dibutyltin (DBT) compounds

Appendix table 10: List of Brominated Flame Retardants (excluding PBB group, PBDE group and HBCDD)

Appendix table 11: List of Bisphenols and Bisphenol derivatives

These tables are available at the following website (file name: HKS_Annex):

https://www.proterial.com/e/csr/csr04_04.html

Appendix 2 Conditions of Chemical Substances Survey

1. Survey of chemical substances included in raw materials, parts, half-finished and finished products, and packing materials

Level	Unit of survey (part)	Unit for survey figures	Value	Standards for acquiring values	
				Substance intentionally added	Substance deemed to be unintentionally added
Level A Prohibited substances group	Each homogeneous material	a) the mass of the denominator and the mass of the numerator or b) the mass and content ratio of the denominator for each part that includes chemical substances	Maximum value (theoretical or actually measured value)	Register regardless of the value	Register the maximum value if there is a possibility the substance is included
Level B Controlled substances group	Each homogeneous material, each delivered product or each material composed delivered product	The mass of the substances concerned included in each homogeneous material, each delivered product or each material composed delivered product	Mean value or maximum value (each the theoretical or actually measured value)		Register if the presence of a substance is confirmed and the value that is obtained

(1) Note that individual controls for substances groups not listed above may also be requested.

(2) In particular, as there are cases in which prohibited substances are included in the following scenarios due to impurities, etc., controls should be put in place to ensure that the limit value set by Electric Wire & Cable Business Unit Ibaraki Works is not exceeded.

[Potential inclusion of prohibited substances as impurities]

- Cadmium and lead impurities in brass and die-cast aluminum
- Lead impurities that are mixed in with PVC during the manufacturing process
- Lead impurities originating from antimony trioxide incorporated in flame retardant plastic
- Cadmium and lead impurities in hot-dip zinc
- DEHP impurity in plasticizer TOTM (Tris(2-ethylhexyl) Trimellitate)

(3) Within the prohibited substances group, there are chemicals that were used in various ways as additive agents in the past to achieve certain product performance and characteristics. There is a possibility that such chemical substances still find their way into products today.

There have been reports from time-to-time of the misuse of, inclusion of, and contamination by prohibited substances --through the natural existence of such substances in raw materials, as a by-product of the manufacturing process or the residue from the use of supplementary materials, from the sharing of production lines, from the diversion and use of old inventory, etc.

The supplier is requested to exercise diligent management in regards to being informed of the characteristics and origin of raw materials and parts, including substances not under legal regulation, so that prohibited substances do not get mixed in above the limit set by Electric Wire & Cable Business Unit Ibaraki Works.

Appendix 2 Conditions of Chemical Substances Survey

2. Definition of the denominator and numerator for calculating the content percentage

(1) Definition of the denominator

Prohibited substances: A homogeneous material (Depending on applicable laws and regulations)

Controlled substances: A homogeneous material, number of delivered products or a material used in delivered items (according to the related laws and regulations)

(Concept of homogeneous material)

- Homogeneous material means the state of a material that cannot be mechanically decomposed or divided into different materials
- Homogeneous materials and homogeneous substances are defined as below:

State of material	Judgment criteria
Chemical substances (chemical elements, chemical compounds), polymer alloys, metallic alloys, etc.	Considered to be homogeneous materials
Raw materials including dyes, adhesives, inks, pastes, plastic polymers, glass powder, ceramic powder, etc.	The product formed at the end of the various envisaged methods of usage for these materials is considered to be the homogeneous material e.g.: Paints and adhesives after drying or hardening Status of plastic polymers after their formation into a product Status of glass and ceramics after their formation
Those with painting, printing or plating (chromate treatment), or other treatment	Individual monolayers are considered as a homogeneous material (In the case of zinc plating chromate treatment, the zinc plating layer and the chromate treatment layer are individually considered as homogeneous materials. However, if it is difficult to obtain the values for individual monolayers by separating multilayers, the minimum separable unit is considered as a homogeneous material unit. (JISC0950))

(2) Definition of the numerator

Chemical substances	Definition of numerator
Metals and metallic compounds	Mass of metallic elements
Other than metals and metallic compounds	Mass of the chemical substance

* For SVHC (Substances of Very High Concern), report the mass of CAS numerator including metal elements

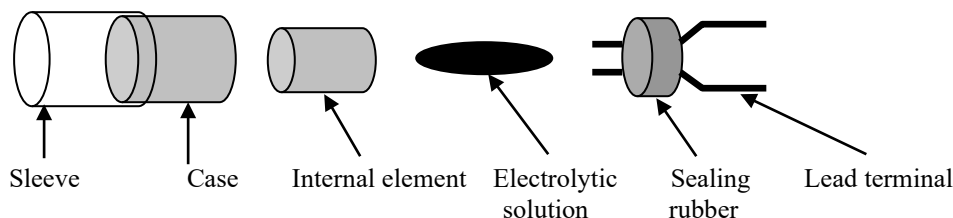
When RoHS regulated lead or a hexavalent chromium compound, which is also included in SVHC, is contained, the mass of lead or hexavalent chromium compound shall be written in addition to the mass of particles in CAS units including metal elements.

Appendix 2 Conditions of Chemical Substances Survey

(3) Application to composition parts of delivered items and calculation of mass of substances included (Reference example).

Use the calculation example below as reference, calculate the mass of substances included.

(Aluminum electrolytic capacitor (mass: 3g))



Calculation example of the content of substances in each part

Part			Composition (chemical substance)			
Part		Mass (g)	Substance name	Purpose of use	CAS No.	Content (g)
Sleeve (outer tube)		0.3	Polyvinyl chloride (PVC)	Major component	9002-86-2	0.15
			Phthalate ester	Plasticizer	117-81-7	0.05
			Other compounds		—	0.1
Case		0.15	Other compounds		—	0.15
Internal element		2	Antimony	Flame retardant	7440-36-0	0.02
			Lead		7439-92-1	0.00009
			Other compounds			1.9791
Electrolytic solution		0.3	Other compounds		—	0.3
Sealing rubber		0.15	Other compounds		—	0.15
Lead terminal	Solder plating	0.011	Lead	Solder	7439-92-1	0.005
			Other compounds		—	0.006
	Cable core	0.089	Copper	Conductor	7440-50-8	0.075
			Other compounds		—	0.014

1. HITACHI Cable, Ltd. Green Procurement Guidelines (QAG-006)

Ver.	Date of Issue	Main Revision Points
—	November 21, 2006	First edition
2	July 2, 2009	1) Updated general terminology: “procurement source” → “supplier,” “procured item” → “delivered item” 2) Deleted “Introduction” and “Environmental Activities of HITACHI Cable” that were contained in the First Edition. 3) P.3/18, Section 3.2: Changed “requests the conclusion of a basic contract <i>and</i> also requests a ‘Memorandum Concerning Chemical Substances in Purchased Materials’” to “concluding a ‘Basic Contract for Materials Transaction’ <i>or</i> a ‘Memorandum Concerning Chemical Substances in Purchased Materials.’” 4) P.4/18, Section 3.4: Added 2), response method for changes to previously reported Environmental Information. 5) P.4/18, Section 4.1: Added clause regarding the possibility of requesting submission of AIS and MSDSplus provided by JAMP for REACH regulation compliance. 6) P.7/18: Deleted the legal limit of “75ppm (plastic, paint, ink)” from chemical substance No. 1 (Cadmium) and the Danish statutory order from laws and regulations; added the laws of Japan, China, and South Korea in laws and regulations for chemical substances Nos. 1 ~ 4, 7 and 8 (RoHS Directive 6 Substances) in Appendix 1 (Level A: Prohibited Substances Group List). 7) P.15/18, Appendix table 5: Added additional Japanese and English substance names for specified amines within parentheses; added an annotation below. 8) Updated general structure and certain expressions, etc.
3	November 11, 2011	Replaced with the Standards (this document)

2. Electric Wire & Cable Business Unit Ibaraki Works Green Procurement Standards (HKS01)

Ver.	Date of Issue	Main Revision Points
1	November 11, 2011	The conventional “Group Green Procurement Guidelines” was revised as shown below and renamed to “Green Procurement Standards” The Green Procurement Standards is the basic regulation for managing chemical substances included in products. 1) The prohibited substances were changed as follows: ▪ Integrated TBTO, TBT and TPT and expanded to 3 organic substituent organotin compound ▪ Combined the expression of Polychlorinated Terphenyls group with Polychlorinated biphenyl group ▪ Added: Formaldehyde, PFOS, specified benzotriazole, dimethyl fumarate, dibutyltin compounds (DBT), cobalt chloride 2) The controlled substances were changed: ▪ Deleted: Magnesium, gold, silver, copper, palladium ▪ Added: Dioctyltin compounds (DOT), REACH Regulation SVHC 3) The composition data for delivered items is to be registered in A Gree’Net. 4) The Common Product Environment Procurement Specification was added. 5) The general layout and part of descriptions were changed.
02	March 31, 2014	The Green Procurement Standards was revised according to the merge of Hitachi Cable Grope to establish Cable Materials Company and the revision of Hitachi Group Green Procurement Guidelines. Major changes in the Green Procurement Standards: 1) The company name was changed. Hitachi Cable, Limited to Cable Materials Company, Hitachi Metals, Limited 2) Addition of the following prohibited substances: i) Hexabromocyclododecane (HBCDD) ii) Perfluorooctanoic acid (PFOA) and its saline and ester groups

		iii) Polycyclic aromatic carbon hydrocarbon group (PAHs) 3) Indication of the following prohibited substances in Japan to Attached Table 1: i) Hexachlorobenzene ii) Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances) iii) Industrial Safety and Health Act (Production Prohibited Substances) iv) Poisonous Material Control Act (Specified Toxic Substances) 4) Changed regulations of CMC for prohibited substances “Intentional use prohibited” was added to “Polybrominated diphenyl ether group (PBDE group)” and “Asbestos group.” 5) Addition of prohibited substances Specified alternatives were added to “Polychlorinated biphenyl group (PCB group)” 6) Addition of controlled substances i) Disubstituted organotin compounds except for DBT and DOT ii) Specified chlorine flame retardants (TCEP, TCPP, TDCPP) iii) Chlorine flame retardants except for ii) iv) Cobalt and its compounds except for cobalt chloride v) Benzene vi) REACH regulated substances (Annex XVII) vii) JAMP controlled substances 7) More detailed control of substances i) Segmentation of phthalate ester group Separated from other phthalate ester compounds, specified phthalate ester group (DEHP, DBP, BBP, DIBP, DINP, DNOP, DIDP) is controlled individually. ii) Addition of candidate substances for approval by REACH as a group 8) Changes in controlled substance group names and the range of groups: i) “Bromine flame retardant (excluding PBB and PBDE)” to “Non-specified bromine flame retardant (excluding PBB, PBDE and <u>HBCDD</u>)” ii) “Polyvinyl chloride (PVC)” to “Polyvinyl chloride (PVC) group and its compounds and copolymers” 9) Removal of controlled substances: “Bismuth and its compounds” were removed from control substances. Revisions other than criteria for voluntarily controlled substances: 1) Review of related laws and regulations 2) The following lists were classified as external lists, and Attached Table 3 Specified amine (products from 1- or more azo groups) was deleted from the annex of the Standards: [Structure of appendix tables] i) Appendix table 1 Applications of cadmium, lead and their compounds excluded from RoHS Directive ii) Appendix table 2 REACH restricted substances (Annex XVII) iii) Appendix table 3 REACH approved substances (Annex XIV) iv) Appendix table 4 Candidate substances for approval by REACH v) Appendix table 5 List of specified amine (products from decomposition of 1- or more azo groups) vi) Appendix table 6 List of prohibited substances of Hexabromocyclododecane (HBCDD) vii) Appendix table 7 List of prohibited substances of Perfluorooctanoic acid (PFOA) and its saline and ester groups viii) Appendix table 8 Specified chlorine flame retardants (TCEP, TCPP, TDCPP)
3	February 29, 2016	Major changes in the Green Procurement Standards: 1) Addition of the following prohibited substances: i) Bis (2-ethylhexyl) phthalate (DEHP (DOP))

		ii) Benzyl butyl phthalate (BBP) iii) Dibutyl phthalate (DBP) iv) Diisobutyl phthalate (DIBP) v) Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) 2) Changed regulations of CMC for prohibited substances i) "Intentional use prohibited" was deleted to "Dibutyltin compounds (DBT)". ii) "per uniform material 50ppm" was deleted to "Hexabromocyclododecane (HBCDD)". 3) Removal of controlled substances: i) Four phthalic acid ester is changed from the controlled substances group to the prohibited substances group, it was deleted from the controlled substances group. 4) Revisions other than criteria for voluntarily controlled substances: i) In Section 1, Cable Materials Company's Involvement in Environmental Conservation are unified in "Basic Policy on Environmental Protection for Hitachi Metals Group Companies". ii) In Section 2.1, the reason why Cable Materials Company established Green Procurement Standards was added. iii) In Section 3.2 (1), the case that the documents such as individual "procurement specification" specify "common specifications" was added. iv) "SDS (Safety Data Sheet)" was written jointly in MSDS. v) In Section 4.2.3(1), a possibility to require analysis data of four phthalic acid ester was added. vi) In Section 4.3(2), "In particular, suppliers are asked to submit notice as quickly as possible (within 48 hours) upon detecting the presence of any prohibited substances" was added. vii) In Section 5, the environmental activity that a supplier was required was changed from Hitachi Group Green Procurement Guidelines to the quotation. viii) Public site of the Standards has been changed.
3.1	October 21, 2016	Change of the number of chlorine of Polychlorinated naphthalene (with 3 or more chlorines → with 2 or more chlorines)
3.2	May 28, 2018	1) Delete MSDS (Material Safety Data Sheet), unified to SDS 2) Adding chemSHERPA related information (Section 4.2.2, Appendix 1: Attached Table 2's No.22) 3) In Section 4.2.2, the case for "The composition data shall be submitted directly to the officer in charge when the officer in charge requested." was added. 4) In Section 4.2.3(1), subject substances to submit the Analysis Data were changed. (from 6 substance groups to 10 substance groups) 5) In Section 4.2.3(2), the document name of the Hitachi Group's "Analysis guideline" was changed. 6) In Section 5(2), Added the 5(2)(a) Reducing the environmental burden of procured products. (11 items → 12 items) 7) In Appendix 1: Attached Table 1's No.4, "Minamata Convention on Mercury" was added. 8) In Appendix 1: Attached Table 1's No.11, "Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class I Specified Chemical Substances)" was added. 9) In Appendix 1: Attached Table 1's No.16, "DE/ ChemVerbotsV" was added. 10) In Appendix 1: Attached Table 1's No.20, "See Appendix Table 9 for applicable substances." was added. 11) In Appendix 1: Attached Table 1's No.23, "REACH regulated substances (Annex XVII)" was added. 12) In Appendix 1: Attached Table 2's No.6, "See Appendix Table 10 for applicable substances." was added. 13) In Appendix 2 section 1, "the maximum value" was added at "Substance deemed to be unintentionally added" for Level A.

3.3	Mar 22, 2019	1) In Section 1, “Hitachi Metals Group Basic Environmental Protection Policies” was revised. 2) In Section 4.2.1, the case for "when satisfying the requirements of our company, we may also approve suppliers' submission by their own style etc" was added. 3) In Appendix 1: Attached Table 1's No.10, Change of the number of chlorine of Polychlorinated naphthalene (with 2 or more chlorines → with 1 or more chlorines) 4) In Appendix 1: Attached Table 1's No.23, Limit (Intentional use prohibited → PFOA: 0.025ppm, Total of PFOA's: 1 ppm). “Stockholm Convention on Persistent Organic Pollutants (POPs Regulation)” was added. 5) In Appendix 1: Attached Table 1's No.24, Limit (1ppm → Each 1 ppm) 6) In Appendix 1: Attached Table 1's No.29, “REACH regulated substances (Annex XVII)” was added. 7) In Appendix 1: Attached Table 1, “Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST) was deleted. 8) In Appendix 1: Attached Table 2's No.1, “Diantimony trioxide (Sb₂O₃)” was added. 9) In Appendix 1: Attached Table 2's No.2, “excluding Sb₂O₃” was added. 10) In Appendix 1: Attached Table 2's No.9 and No.11, “US California state Proposition 65” was added. 11) In Appendix 1: Attached Table 2's No.20, “Medium-chain paraffin chloride (MCCPs)” was added. 12) In Appendix 1: Attached Table 2's No.21, “Perfluorohexane-1-sulphonic acid (PFHxS), its salts and PFHxS-related compounds” was added. 13) In Appendix 1: Attached Table 2's No.22, “4,4'-isopropylidenediphenol (bisphenol A)” was added. 14) In Appendix 1: Attached Table 2's No.26, “JAMP declarable substances” was deleted, unified to “chemSHERPA declarable substances”.
4	Apr 19, 2019	The division name was changed. Cable Materials Company to Advanced Components & Materials Division Ibaraki Works
4.1	August 18, 2021	1) In third paragraph of Section 4.2.1, (when satisfying the requirements of our company → when satisfying our works requirements) 2) In Section 4.2.2, JAMA sheet → JAPIA sheet 3) In Appendix 1: Attached Table 1's No.6, “Including decaBDE” was added, “US / TSCA(PBT)” was added. 4) In Appendix 1: Attached Table 1's No.23, Name of chemical substance (Perfluorooctanoic acid (PFOA) and its saline and ester groups → Perfluorooctanoic acid (PFOA) and its salts and related substances), Limit (PFOA: 0.025ppm Total of PFOA's: 1 ppm → Intentional use prohibited, and PFOA: 0.025ppm Total of PFOA's: 1 ppm). “US PFOA Stewardship Program “, “Norwegian law” and “REACH regulated substances (Annex XVII)” were deleted. “POPs (EU) 2019/1021”, “US / TSCA (SNUR)” and “Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2021/10)” were added. 5) In Appendix 1: Attached Table 1's No.26 to No.29, “*4: Packing materials: No more than 1000 ppm in a total of 4 substances (DEHP, BBP, DBP and DIBP)” was added. 6) In Appendix 1: Attached Table 1's No.30, “Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS No.68937-41-7)” was added. 7) In Appendix 1: Attached Table 1's No.31, “Pentachlorothiophenol (PCTP) (CAS No.133-49-3)” was added. 8) In Appendix 1: Attached Table 2's No.7, “excluding TBBP-A and DBDPE” was added. 9) In Appendix 1: Attached Table 2's No.16, “excluding Dechlorane Plus” was added. 10) In Appendix 1: Attached Table 2's No.20, “CAS No.85535-85-9” was added. “REACH regulated substances/candid substances for approval by REACH (SVHC)” was added. RoHS's notes (“Substances subject to review of the list of restricted substances” → “Substances for which restrictions are being studied”)

		11) In Appendix 1: Attached Table 2's No.21, "REACH regulated substances / candid substances for approval by REACH (SVHC)" was added. 12) In Appendix 1: Attached Table 2's No.22, "REACH regulated substances / candid substances for approval by REACH (SVHC)" was added. 13) In Appendix 1: Attached Table 2's No.23, "Tetrabromobisphenol A (TBBP-A) (CAS No.79-94-7)" was added. 14) In Appendix 1: Attached Table 2's No.24, "Decabromodiphenyl ethane (DBDPE) (CAS No.84852-53-9)" was added. 15) In Appendix 1: Attached Table 2's No.25, "1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7, 15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof (CAS No.13560-89-9, 135821-03-3, 135821-74-8)" was added. 16) In Appendix 1: Attached Table 2's No.26, 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.25973-55-1)" was added. 17) (CAS No.25973-55-1)" was added. 18) In Appendix 1: Note*11: "8. EU (MDR) Annex I 10.4" was added.
4.2	October 11, 2022	1) In Appendix 1: Attached Table 1's No.32, "Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and C9-C14 PFCA-related substances" was added. 2) In Appendix 1: Attached Table 1's No.33, "Perfluorohexane sulfonic acid (PFHxS), its salts, and PFHxS-related compounds" was added. 3) In Appendix 1: Attached Table 1's No.22, Limit (100ppm) was added. "EU POPs Regulation (EU) 2019/1021" was added. 4) In Appendix 1: Attached Table 1's No.25, Limit (10ppm) was added. "EU POPs Regulation (EU) 2019/1021" was added. 5) In Appendix 1: Attached Table 2's No.26, "Perfluorocarboxylic acids containing 9 to 21 carbon atoms in the chain (C9-C21 PFCAs), their salts and C9-C21 PFCA-related substances (C9-C14 PFCA is included in Level A (prohibited substance group))" was added. 6) In Appendix 1: Attached Table 2's No.27, "Undecafluorohexanoic acid (PFHxA), its salts and related substances" was added.
5.0	January 4, 2023	1) Company name's change Old company name: Hitachi Metals, Ltd. New company name: Proterial, Ltd. 2) In Section 2.1, Continued operation from HKS01(Ver. 4.2) was added. 3) In Section 4.2.2, Change to information submission in formats such as chemSHERPA 4) In Section 4.2.3(2), Hitachi Group "RoHS Directive analysis guideline" citation removed. 5) In Appendix 1: Attached Table 1's No.34, "Dechlorane Plus" was added. 6) In Appendix 1: Attached Table 1's No.35, "UV-328" was added. 7) In Appendix 1: Attached Table 2's No.26, "Bisphenols and bisphenol derivatives" was added. 8) In Appendix 1: Attached Table 2's No.20, "Additional evaluation substance of Appendix A (Elimination) of the Persistent Organic Pollutants (POPs) Review Committee about Stockholm Convention" was added. 9) In Appendix 1: Attached Table 2's Remark 11 Declarable substances regulated by chemSHERPA, "China RoHS" was added. 10) In Appendix 2, Section 1.(2), "DEHP impurity in plasticizer TOTM" was added. 11) In Appendix 2, Section 2.(1), "(Depending on applicable laws and regulations)" was added.
5.1	April 12, 2023	1) Change of department Old: Advanced Components & Materials Division Ibaraki Works New: Electric Wire & Cable Business Unit Ibaraki Works 2) In Appendix 1: Attached Table 2's No.33, "Per- and polyfluoroalkyl substances (PFAS)" was added. 3) In Appendix 1: Attached Table 1's No.33, "EU POPs Regulation (EU) 2019/1021" was added.

		4) In Appendix 1: Attached Table 2's No.22, "REACH regulated/candidate substances for approval by REACH (SVHC)" was added.
5.2	November 5, 2025	1) Table 1 of Section 3.1: Level B Controlled Substances Group, "these are substances that are likely to be banned or restricted by law in the near future, or" was added. 2) In Appendix 1: Attached Table 1's No.32, "15-21 carbon atoms" and "Stockholm Convention on Persistent Organic Pollutants (POPs)" was added. 3) In Appendix 1: Attached Table 1's No.36, "Medium-chain paraffin chloride (MCCPs)(with a carbon chain length between 14 and 17)" was added and removed from Attached table 2. 4) In Appendix 1: Attached Table 2's No.26, "Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5), dodecamethylcyclohexasiloxane (D6)" was added. 5) In Appendix 1: Attached Table 2's No.27, "Long-chain paraffin chloride (LCCPs)(with a carbon chain length over 17)" was added. 6) In Appendix 1: Attached Table 1's No.17, "PFOS and their salts: 0.025 ppm, The sum of PFOS-related substances: 1ppm" and "EU POPs Regulation (EU) 2019/1021" was added. 7) In Appendix 1: Attached Table 1's No.22, "75ppm" was changed. 8) In Appendix 1: Attached Table 1's No.30, "1000ppm" was added. 9) In Appendix 1: Attached Table 1's No.34 and 35, "1ppm" and " EU POPs Regulation (EU) 2019/1021" was added, and "Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2025/02)" was added, and "Additional recommended substance of Appendix A" was removed. 10) In Appendix 1: Attached Table 1's No.16, "REACH regulated substances (Annex XVII)" was added 11) In Appendix 1: Attached Table 1's No.33, "Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Class 1 Specified Chemical Substances: 2024/02)" was added 12) In Appendix 1: Attached Table 2's No.22, "REACH regulated/candidate substances for approval by REACH (SVHC)" was added, and "Canadian Environmental Protection Act (CEPA) Part 2 of Schedule 1" was changed, "AUS / Industrial Chemicals Environmental Management Standard (IChEMS)" was added. 13) In Appendix 1: Attached Table 2's No.23, "REACH regulated substances (Annex XVII)" was changed. 14) In Appendix 1: Attached Table 2's No.25, "Excluding the following specific PFAS" was changed, "Section 8(a)(7)(Reporting and Recordkeeping Requirements)" was added, "US/Maine State: LD1537" was changed. 15) In Section 4.2.2, JAMP was changed to "CMP Consortium", "A Gree'Net" was removed.