

Tabuchi Electric Group
Green Procurement Standards

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TABUCHI ELECTRIC CO., LTD.
Quality Control Division



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<1> Basic Stance Regarding the Environment

Environmental conservation has become an issue on a global scale in recent years and prevention of global warming, recycling of resources, consideration for conservation of the ecosystem have become important issues that cannot be ignored.

The Tabuchi Electric Group in anticipation of the future has established an environmental philosophy and basic environmental policies regarding the environment and based on these have aggressively developed business management with the goal of global environmental conservation and formation of a recycling oriented society.

Along with enhancing environmental conservation activities with the cooperation of our business partners, it is necessary to procure parts that have little impact on the environment, reduce the burden on the environment and avoid environmental risks.

Under the REACH regulations that came into effect in June 2007, candidate substances and restricted substances subject to approval have been added yearly, especially in Europe and in July 2011, the RoHS Directive took effect and laws and regulations regarding environmentally hazardous substances have increasingly become strengthened.

Based on the above background, we decided to revise the "Green Procurement Standards". We will continue to work with our business partners to create environmentally friendly products and promote business activities that place importance on the environment and therefore we would like you to understand the importance of efforts in environmental conservation and ask for your cooperation.

1. Environmental Philosophy

We will strive to become a company that coexists with the irreplaceable environment of the earth.

2. Basic Environmental Policy

Based on the fact that Tabuchi Electric Co., Ltd. is a business entity that develops, designs and sells transformers, power supply equipment, etc., we will promote environmental conservation activities based on the following policies.

1) We will understand the environmental impact related to business activities and implement settings and periodic revisions of environmental goals within the scope economically and technically possible.

- ① Promote product designs with consideration for the environment.
- ② Manage and reduce environmentally dangerous substances.

2) We will observe laws, regulations, agreements and other requirements agreed upon regarding environmental conservation.

- 3) We will implement environmental impact assessment, internal environmental audits, etc., and through continuously improving our environmental management system, we will prevent pollution of the environmental.
- 4) Through environmental education and company publicity activities, we will strive to raise awareness of environmental policies for everyone engaged in the company and raise awareness regarding the environment.
- 5) We will announce this environmental policy to the externally.

<2> Description of Specific Initiatives

1. Applicable Range

Applies to products, components, auxiliary materials and packaging materials procured by the Tabuchi Electric Group.

2. Definition of Terms

1) Environmentally Hazardous Substances

Refers to substances the Tabuchi Electric Group has determined to have a significant impact on the global environment and the human body.

2) Homogeneous Materials

Refers to materials that cannot be mechanically broken down into different materials.
Homogeneous: Entire composition is uniform

Example: Plastics, glass, metals, alloys, paper, boards, resins, coating

Mechanically Broken Down: Refers to basically materials that can be separated and broken down by mechanical action such, removal of screws, smashing, grinding and polishing.

3) Containment

Refers to components constructing the product or substances added, filled, mixed or adhered to materials used for the components regardless of intentional or not.

4) Impurities

Refers to substances contained in natural materials that cannot be technically removed in the purification process as industrial materials also substances that occur in the synthesis reaction process that cannot be technically removed.

5) Chemical substances

Refers to elemental units and chemical compounds that exist in nature or elements or their chemical compounds obtained in an arbitrary manufacturing process.

Additives necessary to maintain stability or impurities occurring from the processed used are included. However, solvents that can be separated without affecting the change in composition or stability of single chemical substances are excluded.

Example: lead oxide, nickel chloride, benzene, etc.

6) Mixture

Refers to a mixture of 2 or more chemical substances.

Example: Paint, ink, ingot alloy, solder, adhesive, resin pellet, etc.

7) Article

Refers to the specific shape, appearance or design assigned during manufacturing that will greatly determine the function in end use rather than the function fulfilled by the chemical composition.

Example: Metal plate materials, gears, integrated circuits, electrical products, transport equipment, etc.

8) SVHC : Substances of Very High Concern

Refers to carcinogenic substances, mutagenic substances, reprotoxic substances and non-biodegradable chemical substances that accumulate in the environment and living organisms that are published on a list of substances subject approval by the European Administrative Agency.

SVHC will be appended and revised each time

9) Auxiliary Materials

Refers to components not listed in the component list of the manufacturing specifications and refers to flux, diluents (thinner, alcohol), cleaning agents, masking materials / tape, packing tape, marker pens, ink, cushioning materials, desiccant, etc.

10) Domestic VT62474

Domestic VT 62474 is the abbreviation for IEC TC 111 VT62474 Japan National Committee and is one of the subcommittees established by the National Committee of IEC/TC111 (Secretariat: JEITA Environment Division) and is a domestic organization that can reflect the Japan's opinion regarding IEC62474 on attending international conferences and international voting.

3. Tabuchi Electric Group Management Standards for Environmentally Hazardous Substances

The management standards of the Tabuchi Electric Group's environmentally hazardous substances are as described below.

However, please understand that there may be additional requirements in accordance with future changes in international laws and various countries' regulations.

1) Substances subject to environmental impact

(a) Prohibited substances

Addition of prohibited substances to products and packaging materials and inclusion or use of impurities beyond the threshold value is strictly prohibited.

The inspection for environmentally harmful substances should not only consist of inspection of content of materials but also continually check for contamination or use and transfer to products.

Substances prohibited from use are indicated below.

Appendix 1. "Banned Substance"

Appendix 2. "Prohibited Substances in the Manufacturing Process"

(b) Restricted substances

Substances that are prohibited from inclusion after the expiration designated by the Tabuchi Electric Group and substances that are phased out, finally becoming prohibited and such restricted substances are indicated below.

Appendix 3. "Restricted Substances"

(c) Contained Controlled Substances

Substances requiring knowledge of presence or absence, amount contained, location of use, usage, etc., are indicated below.

i) Appendix 4. "Contained Controlled Substances"

ii) Substances designated by REACH *SVHC.

* It is necessary to report containment details when the content of substances falling under SVHC exceeds 1,000 ppm.

2) Contained environmental hazardous substances threshold value

(a) Prohibited substances must not intentionally be added.

However, application exemption use such as RoHS directives is excluded.

(b) The threshold value of impurities for applicable environmentally hazardous substances of the Tabuchi Electric Group is indicated in the applicable range of the Appendix below. However, inclusion or use of substances of Appendix 2 "Prohibited Substances in the Manufacturing Process" is strictly prohibited.

Appendix 1. "Banned Substance"

Appendix 2. "Restricted Substances"

Appendix 3. "Contained Controlled Substances"

(c) REACH SVHC shall contain less than 1,000 ppm for each substance.

4. Evaluation of Business Partners

The Tabuchi Electric Group will evaluate the environmental management system of new business partners and when the Tabuchi Electric Group considers an evaluation is necessary.

1) Construction of environmentally hazardous substance management system

Please construct and maintain and same management system as "Guidelines for Management of Chemical Substances in Products" issued by the Article Management Promotion Council (hereinafter referred to as JAMP).

Additionally, please ask your subcontractors to also construct and maintain the management system in the same manner.

These guidelines can be obtained from Section 6 of the JAMP website.

2) Evaluation procedure

(a) Self Evaluation

For new business partners and when the Tabuchi Electric Group determines it necessary, we will ask you to submit the self-assessment results based on JAMP's

"Guidelines for the Management of Chemical Substances in Products attachment Implementation Items List and Check Sheet".

Additionally, please answer both STEP 1 and STEP 2 questions.

The Implementation Items List and Check Sheet can be obtained from Section 6 of the JAMP website.

(b) Evaluation and Judgment

Based on the self-assessment results submitted, evaluation and judgement to see if the requirements of "Appendix Implementation Item List and Check Sheet for Product Chemical Substance Management Guidelines" have been satisfied. If the Tabuchi Electric Group Grove determines it necessary, an audit of the business partner will be conducted.

The results of the evaluation and judgment will be notified to business partners.

5. Request for Submission of Survey Data

Please submit the survey data at new employment and at 4M change (Materials, Manufacturing Method, Equipment and Personnel).

Additionally, we will also request it when the Tabuchi Electric Group determines it necessary.

1) Regarding submission of "Inclusion Confirmation Form"

(a) Survey content

Confirmation of presence or absence, amount contained, ratio of content, location of inclusion, and usage, etc.

Please refer to **Appendix 6.** "Submission of Inclusion Confirmation Form" for details.

(b) Answering method

Please fill in and submit **Appendix 7.** "Inclusion Confirmation Form" for your answers.

2) Regarding submission of " Certificate of Non-use "

(a) Certificate content

It is to assure use and inclusion will not be done, please refer to Appendix 8 "Submission of Certificate of Non-use" for details.

(b) Answering method

Please fill in **Appendix 9.** "Certificate of Non-use" and submit at the same the "Inclusion Confirmation Form" for your answers.

3) Regarding submission of "High Precision Analysis Data"

This will be requested if the Tabuchi Electric Group determines it necessary,

The substances subject to analysis are RoHS 6 substances (lead, cadmium, mercury, hexavalent chromium, PBB, PBDE)

(a) Analysis data

Please submit analytical data by a high precision analyzer or equivalent analyzer. Fluorescent X-ray analysis data analyzed that has been correlated with analysis

results of a high precision analyzer is also acceptable.

Please refer to Appendix 10 "Submission of High Precision Analysis Data".

Please summarize the high precision analysis data in Appendix 11. "High Precision Analysis Data List" or the equivalent analysis data list by each part.

For high precision analysis, please use the following analyzer.

Applicable Chemical Substance	Analyzer
Cadmium (Cd) Lead (Pb) Mercury (Hg)	ICP Emission Spectroscopic Analyzer (ICP-AEP) ICP Mass Spectrometer (ICP-MS) Atomic Absorption Spectroscopy (AAS) Fluorescent X-ray Analyzer (XRF)
Hexavalent chromium (Cr 6 +)	UV-Visible Spectrophotometer (UV-VIS) Ion Chromatograph Analyzer (IC)
Polybrominated biphenyl (PBB) Polybrominated diphenyl ether (PBDE)	Gas Chromatograph Mass Spectrometer (GC-MS)

(b) Elution volume analysis data

Analytical data on the elution volume of substances specified in ISO8124-3 and EN1811 will be requested as necessary.

4) Submission of MSDS plus, AIS

Please submit form MSDS plus or AIS data issued by JAMP.

Please submit chemical substance, MSDS plus for Mixture, AIS data for Article.

MSDS plus and AIS related materials and tools can be obtained from Section 6 of the JAMP website.

6. Reference Website.

1) Joint Article Management Promotion-consortium (JAMP)

Website: <http://www.jamp-info.com/>

2) Domestic VT62474

Website: <http://www.vt62474.jp/>

3) Tabuchi Electric Co., Ltd.

Website: <http://www.zbr.co.jp/environment/environment.html>

7. Inquiries

For inquiries regarding contents of these standards, please inquire below.

Tabuchi Electric Co., Ltd. Quality Control Department TEL : 06-4807-3538

E-mail : green@zbr.co.jp

Revision History

Version No.	Ver.	Enacted/Revision Date	Revision Description
First Edition	Ver1.0	March, 25 2005	New Issue
Second Edition	Ver2.0	Oct. 16, 2006	Applicable environmentally hazardous substance list made to conform to former JGPSSI. Revision of management standards.
	Ver2.1	Jan. 10, 2007	Toy application phthalate ester management added.
	Ver2.2	Oct. 1, 2007	Addition regarding submission of "Inclusion Confirmation Form", "Non-use Assurance Form", "Precise Analysis Data".
	Ver2.3	March 14,2008	Addition of DecaBDE, PFOS to prohibited substances Threshold value, management value changed.
	Ver2.4	Aug. 6, 2008	Management value change
Third Edition	Ver3.0	April 1, 2010	Changed applicable environmentally hazardous substance list to conform to JIG MSDS plus, AIS added. Addition of detailed explanation of submission data.
Fourth Edition	Ver4.0	Jan. 10, 2017	Revision of applicable environmentally hazardous substance list Revision of management standards

Appendix 1 Banned Substance**(Prohibited substances for products and packages)**

No.	Substance/Substance group	Portion/Material	Threshold Level	Application	Reference laws and regulation
1	Cadmium/Cadmium compounds	All, except batteries	0.01% by weight(100ppm) of homogeneous materials	pigments, corrosion-resisting surface treatment, batteries, contact paint, stabilizers for PVC	1,2
		Batteries	0.001% by weight (10ppm) of battery		
2	Hexavalent chromium compounds	All	0.1% by weight(1,000ppm) of homogeneous materials	pigments, paints, ink, catalysts, anticorrosive surface, plating surface	1,2
3	Lead/Lead compounds	All, except as noted	0.1% by weight(1,000ppm) of homogeneous materials	pigments, paints, stiffener in rubbers, stabilizer in plastic, batteries, curing agents for rubber, solders, glasses, free cutting alloy, additive in various type of resins	1,2,3,4
		Caicity cords with thermoset or thermoplastic coating	0.03% by weight(300ppm) of surface coating		
		Batteries	0.004% by weight(40ppm) of battery		
4	Mercury/Mercury compounds	All, except batteries	0.1% by weight(1,000ppm) of homogeneous materials	batteries, Fluorescent materials, contact points, thermometers, pigments	1,2,5
		Batteries	0.0001% by weight(1ppm) of battery		
5	Tributyl tin oxide (TBTO)	All	Intentional use	paints, pigments, antiseptic agents, refrigerants, digestives, forming agents	8
6	Tri-substituted organostannic compounds	All	Intentional use or more than 1,000ppm of tin is contained in homogeneous materials	paints, pigments, flame retardants, stabilizer	2,8
7	Dibutyltin compounds (DBT)	All	More than 1,000ppm of tin is contained in homogeneous materials	PVC stabilizers, curing catalysts for silicon resin and urethane resin	2
8	Diocetyl tin compounds (DOT)	All	More than 1,000ppm of tin is contained in homogeneous materials	PVC stabilizers, curing catalysts for silicon resin and urethane resin	2
9	Polybrominated biphenyls (PBBs)	All	0.1% by weight(1,000ppm) of homogeneous materials	flame retardants	1,2
10	Polybrominated diphenyl ethers (PBDEs)	All	Intentional use or more than 1,000ppm of tin is contained in homogeneous materials	flame retardants	1,2,8
11	Polychlorinated diphenyls (PCBs) and specific substitutes *Refer to Appended table list for Banned Substances	All	Intentional use	insulating oils, electrical insulation medium, plasticizers, paint solvent, heat transformer medium	2,8
12	Polychlorinated terphenyls (PCTs)	All	0.005% by weight(50ppm) of homogeneous materials	insulating oils, electrical insulation medium, plasticizers, paint solvent, heat transformer medium	2
13	Polychlorinated naphthalenes	All	Intentional use	greases, metal treatment liquids, flame retardants, plasticizer in PVC	8,10
14	Perchlorates	All	Inclusion of more than 0.006ppm in a part	coin-cell batteries	22
15	Perfluorooctane sulfonate (PFOS)	All	Intentional use or more than 1,000ppm of tin is contained in homogeneous materials	hydraulic fluid, metal plating, coating for paper	8,9,10,12
16	Selected Fluorinated green house gases (PFC,SF6,HFC) *Refer to Appended table list for Banned Substances	All	Intentional use	refrigerants, foaming agents, detergent, fumigation	14
17	Asbestos	All	Intentional use	insulators, fillers, heat insulator, frictional agents	2,6,7
18	Azocolourants and azodyes which from certain aromatic amines *Refer to Appended table list for Banned Substances	Fibers and Leathers	In fabric products/leather products and form more than 30ppm	pigments, dyes, coloring agents	2

No.	Substance/Substance group	Portion/Material	Threshold Level	Application	Reference laws and regulation
19	Ozone deplating substances *Refer to Appended table list for Banned Substances	All	Intentional use	refrigerants, foaming agents, fumigation	15,16
20	Radioactive substances	All	Intentional use	smoke detectors, measurement equipments, gauge, detectors	19,20
21	2-benzotriazol-2-yl-4, 6-di-tert-butylphenol	All	Intentional use	adhesive agents, paints, printing ink, plastics, putties, caulking, filling materials (ultraviolet light absorbers)	8
22	Specific phthalates (BBP, DBP, DEHP, DIDP, DINP, DNOP)	All	total sum of six phthalates less than 1,000ppm	plasticizers, dyes, pigments, painting ink, adhesive	1,2,3,4
23	Dimethyl fumarate	All	0.1% by weight (1,000ppm) of homogeneous materials	moisture prevention agents, mildew-proofing agents	2
24	4 heavy metals (Cd, Pb, Cr ₆₊ , Hg)	Packing materials	total sum of four heavy metals less than 1,000ppm	pigments, paints, stabilizer for PVC	17,18
25	Short chain chlorinated paraffins (C10-C13)	All	Intentional use or more than 1,000ppm of tin is contained in homogeneous materials	greases, metal treatment liquid, flame retardants, plasticizer in PVC	10
26	Polycyclic aromatic hydrocarbons (PAHs) *Refer to Appended table list for Banned Substances	Direct contact with human skin or oral cavity for long period of time or repeatedly	Less than 1ppm	pigments in rubber or plastic components (as impurity)	2
27	Hexabromocyclododecane (HBCDD) and all major diastereoisomers *Refer to Appended table list for Banned Substances	All	0.1% by weight (1,000ppm) of homogeneous materials	flame retardant	8,9
28	Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA *Refer to Appended table list for Banned Substances	All	Intentional use	hydraulic fluid, metal plating, coating for paper	11,13
29	Arsenic compounds	All	0.1% by weight (1,000ppm) of homogeneous materials	wood preservative	2
30	Cobalt dichloride	Drier	0.1% by weight (1,000ppm) of homogeneous materials	moisture indicator in silica gel	2
31	Natural rubber	All	Intentional use	rubber bushing, rubber sheets, antivibration rubber	—

Appendix 1 Attachment Prohibited Substances Details

No	Substance Group Name	Relevant Substances	CAS No.
12	Polychlorinated biphenyls (PCB) and specific substitutes	Polychlorinated biphenyls (all isomers and homologues)	1336-36-3
		Monomethyl-tetrachloro-diphenylmethane (Ugilec 141)	76253-60-6
		Monomethyl-dichloro-diphenylmethane (Ugilec 121, Ugilec 21)	81161-70-8
		Monomethyl-dibromo-diphenylmethane (DBBT)	99688-47-8
17	Fluorine-based greenhouse gases (PFC, SF 6, HFC)	Tetrafluoromethane (carbon tetrafluoride, PFC-14)	75-73-0
		Hexafluoroethane (PFC-116)	76-16-4
		Octafluoropropane (PFC-218)	76-19-7
		Decafluorobutane (PFC - 31 - 10)	355-25-9
		Dodecafluoropentane (PFC-41-12)	678-26-2
		Tetradecafluorohexane (PFC - 51 - 14)	355-42-0
		Octafluorocyclobutane (PFC-c 318)	115-25-3
		Sulfur hexafluoride (SF 6)	2551-62-4
		Trifluoromethane (HFC-23)	75-46-7
		Difluoromethane (HFC-32)	75-10-5
		Methyl fluoride (HFC-41)	593-53-3
		2H, 3H-decafluoropentane (HFC-43-10mee)	138495-42-8
		Pentafluoroethane (HFC-125)	354-33-6
		1,1,2,2-tetrafluoroethane (HFC-134)	359-35-3
		1,1,1,2-tetrafluoroethane (HFC-134a)	811-97-2
		1,2-Difluoroethane (HFC-152)	624-72-6
		1,1-Difluoroethane (HFC-152a)	75-37-6
		1,1,2-trifluoroethane (HFC-143)	430-66-0
		1,1,1-trifluoroethane (HFC-143a)	420-46-2
		Fluoroethane (HFC-161)	353-36-6
		2H-heptafluoropropane (HFC-227ea)	431-89-0
		1,1,1,2,2,3-hexafluoropropane (HFC-236cb)	677-56-5
		1,1,1,2,3,3-hexafluoropropane (HFC-236ea)	431-63-0
		1,1,1,3,3,3-hexafluoropropane (HFC-236fa)	690-39-1
1,1,2,2,3-pentafluoropropane (HFC-245ca)	679-86-7		
1,1,1,3,3-pentafluoropropane (HFC-245fa)	460-73-1		
1,1,1,3,3-pentafluorobutane (HFC-365 mfc)	406-58-6		
19	Azo dyes and pigments producing some aromatic amines	4-aminoazobenzene	1960/9/3
		O-Anisidine	90-04-0
		2-naphthylamine	91-59-8
		3,3'-dichlorobenzidine	91-94-1
		4-Aminobiphenyl	92-67-1
		Benzidine	92-87-5
		O-toluidine	95-53-4
		4-chloro-2-methylaniline	95-69-2
		2,4-toluenediamine	95-80-7
		O-aminoazotoluene ‡	97-56-3
		5-Nitro-o-toluidine	99-55-8
		3,3'-Dichloro-4,4'-diaminodiphenylmethane	101-14-4
		4,4'-methylenedianiline	101-77-9
		4,4'-diaminodiphenyl ether	101-80-4
		P-chloroaniline	106-47-8
		3,3'-Dimethoxybenzidine	119-90-4
		3,3'-dimethylbenzidine	119-93-7
		2-methoxy-5-methylaniline	120-71-8
		2,4,5-trimethylaniline	137-17-7
		4,4'-diaminodiphenyl sulfide	139-65-1
2,4-Diaminoanisole	615-05-4		
4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0		
20	Ozone Layer Destructive Montreal Protocol Substances described in Attachments A, B, C, E	CFCl ₃ (CFC-11)	—
		CF ₂ Cl ₂ (CFC-12)	—
		C ₂ F ₃ Cl ₃ (CFC-113)	—
		C ₂ F ₄ Cl ₂ (CFC-114)	—
		C ₂ F ₅ Cl (CFC-115)	—
		CF ₂ BrCl (halon-1211)	—

No	Substance Group Name	Relevant Substances	CAS No.
		CF ₃ Br (halon-1301)	—
		C ₂ F ₄ Br ₂ (halon-2402)	—
		CF ₃ Cl (CFC-13)	—
		C ₂ FCl ₅ (CFC-111)	—
		C ₂ F ₂ Cl ₄ (CFC-112)	—
		C ₃ FCl ₇ (CFC-211)	—
		C ₃ F ₂ Cl ₆ (CFC-212)	—
		C ₃ F ₃ Cl ₅ (CFC-213)	—
		C ₃ F ₄ Cl ₄ (CFC-214)	—
		C ₃ F ₅ Cl ₃ (CFC-215)	—
		C ₃ F ₆ Cl ₂ (CFC-216)	—
		C ₃ F ₇ Cl (CFC-217)	—
		CCl ₄ Carbon tetrachloride	—
		C ₂ H ₃ Cl ₃ 1,1,1-trichloroethane (methyl chloroform)	—
		Relevant Substances	Number of isomers
		CHFCI ₂ (HCFC-21)	1
		CHF ₂ Cl (HCFC-22)	1
		CH ₂ FCl (HCFC-31)	1
		C ₂ HFCI ₄ (HCFC-121)	2
		C ₂ HF ₂ Cl ₃ (HCFC-122)	3
		C ₂ HF ₃ Cl ₂ (HCFC-123)	3
		CHCl ₂ CF ₃ (HCFC-123)	—
		C ₂ HF ₄ Cl (HCFC-124)	2
		CHFClCF ₃ (HCFC-124)	—
		C ₂ H ₂ FCl ₃ (HCFC-131)	3
		C ₂ H ₂ F ₂ Cl ₂ (HCFC-132)	4
		C ₂ H ₂ F ₃ Cl (HCFC-133)	—
		C ₂ H ₃ FCl ₂ (HCFC-141)	3
		CH ₃ CFCl ₂ (HCFC-141b)	—
		C ₂ H ₃ F ₂ Cl (HCFC-142)	3
		CH ₃ CF ₂ Cl (HCFC-142b)	—
		C ₂ H ₄ FCl (HCFC-151)	2
		C ₃ HFCI ₆ (HCFC-221)	5
		C ₃ HF ₂ Cl ₅ (HCFC-222)	9
		C ₃ HF ₃ Cl ₄ (HCFC-223)	12
		C ₃ HF ₄ Cl ₃ (HCFC-224)	12
		C ₃ HF ₅ Cl ₂ (HCFC-225)	9
		CF ₃ CF ₂ CHCl ₂ (HCFC-225ca)	—
		CF ₂ ClCF ₂ CHClF (HCFC-225cb)	—
		C ₃ HF ₆ Cl (HCFC-226)	5
		C ₃ H ₂ FCl ₅ (HCFC-231)	9
		C ₃ H ₂ F ₂ Cl ₄ (HCFC-232)	16
		C ₃ H ₂ F ₃ Cl ₃ (HCFC-233)	18
		C ₃ H ₂ F ₄ Cl ₂ (HCFC-234)	16
		C ₃ H ₂ F ₅ Cl (HCFC-235)	9
		C ₃ H ₃ FCl ₄ (HCFC-241)	12
		C ₃ H ₃ F ₂ Cl ₃ (HCFC-242)	18
		C ₃ H ₃ F ₃ Cl ₂ (HCFC-243)	18
		C ₃ H ₃ F ₄ Cl (HCFC-244)	12
		C ₃ H ₄ FCl ₃ (HCFC-251)	12
		C ₃ H ₄ F ₂ Cl ₂ (HCFC-252)	16
		C ₃ H ₄ F ₃ Cl (HCFC-253)	12

No	Substance Group Name	Relevant Substances	CAS No.
		C ₃ H ₅ FCI ₂ (HCFC-261)	9
		C ₃ H ₅ F ₂ Cl(HCFC-262)	9
		C ₃ H ₆ FCI(HCFC-271)	5
		CHFBr ₂	1
		CHF ₂ Br(HBFC-22B1)	1
		C ₂ HF ₂ Br ₃	3
		C ₂ HF ₄ Br	2
		C ₂ H ₂ F ₂ Br ₂	4
		C ₂ H ₃ FBr ₂	3
		C ₂ H ₄ FBr	2
		C ₃ HF ₂ Br ₅	9
		C ₃ HF ₄ Br ₃	12
		C ₃ HF ₆ Br	5
		C ₃ H ₂ F ₂ Br ₄	16
		C ₃ H ₂ F ₄ Br ₂	16
		C ₃ H ₃ FBr ₄	12
		C ₃ H ₃ F ₃ Br ₂	18
		C ₃ H ₄ FBr ₃	12
		C ₃ H ₄ F ₃ Br	12
		C ₃ H ₅ F ₂ Br	9
		CH ₂ FBr	1
		C ₂ HFBBr ₄	2
		C ₂ HF ₃ Br ₂	3
		C ₂ H ₂ FBr ₃	3
		C ₂ H ₂ F ₃ Br	3
		C ₂ H ₃ F ₂ Br	3
		C ₃ HFBBr ₆	5
		C ₃ HF ₃ Br ₄	12
		C ₃ HF ₅ Br ₂	9
		C ₃ H ₂ FBr ₅	9
		C ₃ H ₂ F ₃ Br ₃	18
		C ₃ H ₂ F ₅ Br	8
		C ₃ H ₃ F ₂ Br ₃	18
		C ₃ H ₃ F ₄ Br	12
		C ₃ H ₄ F ₂ Br ₂	16
		C ₃ H ₅ FBr ₂	9
		C ₃ H ₆ FBr	5
		CH 2 BrCl Bromochloromethane	—
		CH 3 Br bromide	—
27	Polycyclic aromatic hydrocarbons (PAHs)	enzo (a) pyrene (BaP) 50 – 32 – 8	50-32-8
		Benzo (e) pyrene (BeP) 192 – 97 – 2	192-97-2
		Benzo (a) anthracene (BaA) 56-55-3	56-55-3
		Chrysen (CHR) 218-01-9	218-01-9
		Benzo (b) fluoranthene (BbFA) 205-99-2	205-99-2
		Benzo (j) fluoranthene (BjFA) 205-82-3	205-82-3
		Benzo (k) fluoranthene (BkFA) 207-08-9	207-08-9
		Dibenzo (a, h) anthracene (DBAhA) 53-70-3	53-70-3
28	Hexabromocyclododecane (HBCDD)	Hexabromocyclododecane (HBCDD)	25637-99-4
			4736-49-6
			65701-47-5
			138257-17-7
			138257-18-8
			138257-19-9
			169102-57-2
			678970-15-5

No	Substance Group Name	Relevant Substances	CAS No.
			678970-16-6
			678970-17-7
		1, 2, 5, 6, 9, 10-hexabromocyclododecane	3194-55-6
		A-Hexabromocyclododecane	134237-50-6
		B-hexabromocyclododecane	134237-51-7
		Γ-Hexabromocyclododecane	134237-52-8
29	Perfluorooctanoic acid (PFOA)	Perfluorooctanoic acid (PFOA)	335-67-1
		Ammonium perfluorooctanoate (APFO)	3825-26-1
		Sodium salt of perfluorooctanoic acid	335-95-5
		Potassium salt of perfluorooctanoic acid	2395-00-8
		Silver salt of perfluorooctanoic acid 335-93-3	335-93-3
		Perfluorooctanoic acid fluoride 335-66-0	335-66-0
		Methyl perfluorooctanoate 376-27-2	376-27-2
		Ethyl perfluorooctanoate 3108-24-5	3108-24-5

Appendix2 Prohibited Substances in the Manufacturing Process

1. Prohibited Substances

1.1.

No.	CAS No.	Substance	English Name
1	—	CFC	CFC
2	—	ハロン	Halon
3	56-23-5	四塩化炭素	Carbon tetrachloride
4	71-55-6	1,1,1-トリクロロエタン	1,1,1-Trichloroethane
5	—	HCFC	HCFC
6	—	HBFC	HBFC
7	74-97-5	ブromクロロメタン	Bromochloromethane
8	74-83-9	臭化メチル	Methyl bromide

1.2. Substances Prohibited for Use to Prevent Soil Contamination

No.	CAS No.	Substance	English Name
(3)	56-23-5	四塩化炭素	Carbon tetrachloride
9	107-06-2	1,2-ジクロロエタン	1,2-Dichloroethane
10	75-35-4	1,1-ジクロロエチレン	1,1-Dichloroethylene
11	156-59-2	シス-1,2-ジクロロエチレン	Cis-1,2-Dichloroethylene
12	542-75-6	1,3-ジクロロプロペン	1,3-dichloropropene
13	75-09-2	ジクロロメタン	Dichloromethane
14	127-18-4	テトラクロロエチレン	Tetrachloroethylene
(4)	71-55-6	1,1,1-トリクロロエタン	1,1,1-Trichloroethane
15	79-00-5	1,1,2-トリクロロエタン	1,1,2-Trichloroethane
16	79-01-6	トリクロロエチレン	Trichloroethylene
17	71-43-2	ベンゼン	Benzene

1.3. Special Dust Air Pollution Control Law

No.	CAS No.	Substance	English Name
18		石綿(アスベスト)	Asbestos

1.4. Specific Chemical Substance Law Class 1 Regarding Chemical Substances Examination and Manufacturing etc. Reg

No.	CAS No.	Substance	English Name
19	-	ポリ塩化ビフェニル(PCB)	Polychlorinated biphenyls (PCB)
20	-	ポリ塩化ナフタレン(塩素数2 以上のもの)	Polychlorinated naphthalene (2or more chlorine atoms)
21	118-74-1	ヘキサクロロベンゼン	Hexachlorobenzene
22	309-00-2	アルドリン	Aldrin
23	60-57-1	ディルドリン	Dieldrin
24	72-20-8	エンドリン	Endrin
25	50-29-3	DDT	DDT
26	57-74-9	クロルデン	Chlordane
27	76-44-8	ペプタクロル	Heptachlor
28	8001-35-2	トキサフェン	Toxaphene
29	2385-85-5	マイレックス	Mirex
30	87-68-3	ヘキサクロロブタジエン(別名:ヘキサクロロブタ-1,3-ジエン)	Hexachlorobutadiene
31	-	ペルフルオロ(オクタン-1-スルホン酸)(別名PFOS)又はその塩a)およびペルフルオロ(オクタン-1-スルホニル)=フルオリド(別名PFOSF)	Perfluorooctane sulfonic acid (PFOS), its salts Perfluorooctane sulfonyl fluoride(PFOSF)
32	608-93-5	ペンタクロロベンゼン	Pentachlorobenzene
33	319-84-6	α -ヘキサクロロシクロヘキサン	Alpha hexachlorocyclohexane
34	319-85-7	β -ヘキサクロロシクロヘキサン	Beta hexachlorocyclohexane
35	58-89-9	リンデン(別名: γ -ヘキサクロロシクロヘキサン)	Lindane
36	143-50-0	クロルデコン	Chlordecone
37	36355-01-8	ヘキサブロモビフェニル	Hexabromobiphenyl
38	-	テトラブロモジフェニルエーテル及びペンタブロモジフェニルエーテル	Tetrabromodiphenyl ether and pentabromodiphenyl ether
39	-	ヘキサブロモジフェニルエーテル及びヘプタブロモジフェニルエーテル	Hexabromodiphenyl ether and heptabromodiphenyl ether
40	115-29-7 959-98-8 33213-65-9	エンドスルファン	Technical endosulfan and its related isomers

41	25637-99-4 3194-55-6 4736-49-6 65701-47-5 134237-50-6 134237-51-7 134237-52-8 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7	ヘキサブロモシクロドデカン	Hexabromocyclododecane
42	-	ペンタクロロフェノールとその塩及びエステル類	Pentachlorophenol and its salts and esters

1.5. Manufacturing Prohibited Substances of Occupational Safety and Health Act Ordinance

No.	CAS No.	Substance	English Name
41	-	黄りんマッチ(黄りん)	Tetra phosphorus
42	-	ベンジジン及びその塩	Benzidine and its salts
43	-	4-アミノビフェニル及びその塩	4-Aminobiphenyl and its salts
(18)	-	石綿(アスベスト)	Asbestos
44	-	4-ニトロビフェニル及びその塩	4-Nitrobiphenyl and its salts
45	-	ビス(クロロメチル)エーテル	Bis(chloromethyl) ether
46	-	β -ナフチルアミン及びその塩	β -Naphthylamine
47	-	ベンゼン含有ゴムのり(ベンゼン容量:>5%)	Rubber cement containing benzene (benzene:>5v/v%)

2.削減対象物質

No.	CAS No.	Substance	English Name
-	-	-	-

Appendix3 Restricted Substances**(Substances prohibited from inclusion after expiration)**

No.	Substance Group	Relevant Component	Threshold Value	Application – Usage Example	Reference Laws/ Regulations
1	Diisobutyl phthalate (DIBP)	All	0.1 weight% of homogeneous material (1000 ppm) Start of prohibition After July 22, 2018	Plasticizer, dyes, pigments, paints, inks, adhesives	1,
2	Red phosphorus	All	Intentional addition Start of prohibition After July 22, 2018	Fire retardants	—

Appendix4 Contained Controlled Substances**(Substances requiring knowledge of presence / absence, content, use location, use etc.)**

No.	Substance Group	Relevant Component	Threshold	Application – Usage Example	Reference Laws/ Regulations
1	Beryllium oxide	All	0.1 weight% of molded product (1,000ppm)	Ceramic material	21
2	Brominated flame retardant (Other than PBB and PBDE or HBCDD)	Plastic materials. However, excluding laminated printed circuit boards	0.1 weight% of total content of bromine in plastic material (1000ppm)	Flame retardants	23,24
		Multilayer printed circuit boards	0.09% weight of total bromine content of laminate (900 ppm)		
3	Chlorine-based flame retardant	Plastic materials. However, excluding laminated printed circuit boards	0.1% weight of total chlorine content of plastic materials (1000 ppm)	Flame retardants	23,24
		Multilayer printed circuit boards	0.09% weight of total chlorine content of laminate (900 ppm)		
4	Polyvinyl chloride (PVC) and PVC copolymer	Plastic materials. However, excluding laminated printed circuit boards	When total chlorine content of plastic material is 1000 ppm	Resin materials, insulation, chemical resistance, OHP	23
5	Formaldehyde	Textiles	0.0075 weight% of textile product (75 ppm)	Agents for prevention of insects, corrosion of wood etc., adhesives	25,26
		Composite wood products or components	Added intentionally		
6	Candidate substances subject to REACH regulation SVHC	Refer to REACH approved relevant candidate substances	0.1 weight% of molded product (1,000ppm)	—	2
7	Nickel	In case of components in contact with skin for prolong periods	Added intentionally	Stainless steel, plating	2

Appendix5 Reference Laws, Regulations and Notation Number in Attachment

Notation in table (Reference laws and regulation column)	Name of laws (some abbreviations), Country / Region
1	RoHS Directive (revised) 2011/65 / EU (Europe)
2	REACH Regulation (EC) No 1907/2006 (Europe)
3	Proposition 65 (USA-California)
4	2008 Consumer Product Safety Improvement Act (PUBLIC LAW 110-314) (USA)
5	Mercury Hazard Reduction Law (US)
6	Toxic Substances Control Act (TSCA) (USA)
7	Handling Risk Reduction of Specific Hazardous Substances, Preparations and Articles Cabinet Order (ChemRRV) (Switzerland)
8	Law relating to review of chemical substances and manufacture etc. (Japan)
9	Stockholm Convention on Residual Organic Pollutants (International Convention)
10	Regulation on persistent organic pollutants (POPs) (EC) No 850/2004 (Europe)
11	Norwegian Regulations on Restrictions on Manufacture, Import, Export, Sales and Use of Chemicals and Other Products Harmful to Health and the Environment (Norway)
12	Canada Environmental Protection Act SOR / 2008-178 (Canada)
13	US PFOA Voluntary Abolishment Program (USA)
14	(EU) No 517/2014 (Europe)
15	Montreal Protocol (International Convention)
16	Law regarding the protection of the ozone layer by regulations of specified substances (Japan)
17	EU EU Packaging Directive 94/62 / EEC (Europe)
18	Toxics in Packaging Prevention Act (USA-California)
19	Prevention of Radiation Damage by Radioactive Isotope etc., Act (Japan)
20	Regulation of nuclear source material, nuclear fuel material and nuclear reactor Law (Japan)
21	EU WEEE Directive 2002/96 / EC Article 11: DIGITALEUROPE/CECED/AeA/EERA Guidance regarding information provision implementation to processing facilities (Europe)
22	Perchlorate Contamination Prevention Law 2003 (USA - California)
23	JS 709 (Industry standard) (USA)
24	IPC-04101, IEC 61249-2-21 (I
25	CARB Regulation (USA - California)
26	BGB I 1990/194: Regulation for formaldehyde § 2, 12/2/1990 (Austria)

Submission of Inclusion Confirmation Form

Fill in columns related to the following items.

Be careful when you prepare a document. If there is an incomplete form/mistake in the content, it is necessary to resubmit a document.

《Basic Information》

Preparation date, supplier's name, manufacturer's name, department name, name of person in charge, **stamp by a responsible person**, preparer and contact information

* For overseas business partners, signature by a responsible person is acceptable instead of stamp.

《Investigation of Contained Chemical Substances》

① Part name: Part name and your formal Part number

* When documents can be combined for certain series, etc., prepare one document with name of the series and attach a list of Part numbers.

* It is not necessary to write any Part codes.

② Product weight: Fill in the column weight per product or per unit of m and fill in the column of unit (g, g/m) with a check mark.

* When substances are delivered per unit of kg, it is not necessary to fill in the column of weight of product/unit with a check mark.

③ Contained or not: "Contained" → Fill in the column of impurities or intentional with a circle mark, "Not contained" → Fill in the column with an X mark.

④ Portion weight: Fill in the column weight of homogeneous materials in unit of g.

⑤ Contained amount and content rate: Contained amount (unit: g) and content rate of chemical substances contained in homogeneous materials

* Content rate of portion (in homogeneous materials). Content rate (ppm) = (Contained amount/Weight of portion) X 10⁶

* Fill in the columns with easily understandable numbers. (Ex.) 0.00000003 = 3E-08

⑥ In which portion and for what purpose: portion in which each homogeneous material is contained and for what purposes each contained substance is used

⑦ Remarks: Regarding response to RoHS

* For purposes of RoHS exempted, clearly write "**RoHS exempted**".

When the contained level of **lead** is below the threshold level, clearly write "**below the threshold level**".

* For impurities, clearly write "**below the threshold level**".

* Regarding threshold levels, refer to Appendix 1 "Banned Substance".

【How to Submit A Document】

By following the format of "Confirmation Document about Inclusion of Environmental Impacts Substance", fill in and submit a document.

Send an original document or copy to a person who requests the form or attach electronic data by e-mail

To TABUCHI ELECTRIC CO., LTD.

No. _____

Inclusion Confirmation Form

Preparation Date	YYYY/MM/DD	Part Name	
Supplier's Name		Part Number	
Manufacturer's Name		Part Code	
Department Name		TEL	
Person in Charge		FAX	
Preparer		E-mail	

Weight of Part g g/m *2 ← Don't forget to fill in this column.

No.	Substance group	Contained or not *3			Weight of portion g	Contained amount g	Content rate ppm	In which portion and for what purpose	Remarks (RoHS exempted etc.)
		Contained		Not contained					
		Impurities	Intentional						
Banned Substances									
1	Cadmium/Cadmium compounds								
2	Hexavalent chromium compounds								
3	Lead/Lead compounds								
4	Mercury/Mercury compounds								
5	Tributyl tin oxide (TBTO)								
6	Tri-substituted organostannic compounds								
7	Dibutyltin compounds (DBT)								
8	Diocetyl tin compounds (DOT)								
9	Polychlorinated diphenyls (PCBs) and specific substitutes								
10	Polybrominated diphenyl ethers (PBDEs)								
11	Polychlorinated diphenyls (PCBs) and specific substitutes								
12	Polychlorinated terphenyls (PCTs)								
13	Polychlorinated naphthalenes								
14	Perchlorates								
15	Perfluorooctane sulfonate (PFOS)								
16	Selected Fluorinated green house gases (PFC,SF6,HFC)								
17	Asbestos								
18	Azocolourants and azodyes which from certain aromatic amines								
19	Ozone depleting substances ※1								
20	Radioactive substances								
21	2-benzotriazol-2-yl-4, 6-di-tert-butylphenol								
22	Specific phthalates(BBP,DBP,DEHP,DIDP,DINP,DNOP)								
23	Dimethyl fumarate								
24	4 heavy metals (Cd,Pb,Cr6+,Hg)								
25	Shortchaine chlorinated paraffins (C10-C13)								
26	Polycyclic aromatic hydrocarbons (PAHs)								
27	Hexabromocyclododecane (HBCDD) and all major diastereoisomers								
28	Perfluorooctanic acid (PFOA) and indivisual salts and esters of PFOA								
29	Aersenic compounds								
30	Cobalt dichloride								
31	Natural rubber								
Restricted Substances									
32	Diisobutyl phthalate (DIBP)								
33	Red phosphorus								
Contained Controlled Substances									
34	Beryllium oxide								
35	Brominated flame retardant (Otherthan PBB and PBDE or HBCDD)								
36	Chlorine-based flame retardant								
37	Polyvinyl chloride (PVC) and PVC copolymer								
38	Formaldehyde								
39	Candidate substances subject to REACH regulation SVHC								
40	Nickel								

*1 Substances defined in the Montreal Protocol

*2 Column of Weight of Product/Unit: Fill in the column with a check mark.

① Weight per product (Unit: g)

② When products are delivered per unit of m, mass per m (g/m)

③ When products are delivered per unit of kg, it is not necessary to fill in the column of weight of product with a check mark.

*3 Regarding how to fill in the column of contained or not, refer to [Submission of Inclusion Confirmation Form].

} Select one of these cases.

Submission of Certificate of Non-use

Fill in columns related to the following items.

Be careful when you prepare a document. If there is an incomplete form/mistake in the content, it is necessary to resubmit a document.

When you modify the content, don't use any correction fluid. Cross out a mistake with a double line and set your seal on it.

《Basic Information》

Preparation date, company name, **company seal or stamp by a responsible person**, job title/responsible person's name, contact person's name and telephone number

* For overseas business partners, signature by a responsible person is acceptable instead of stamp.

《Target part》

part name and our registered part number (or series name)

* Fill in the columns with a part name and part number registered by TABUCHI ELECTRIC CO., LTD.

* When parts have not been registered yet, fill in the columns with your part name and part number.

* When documents can be combined for certain series, etc., prepare one document with name of the series and attach a list of part numbers.

* It is not necessary to write any part codes.

《Impurities, Inclusion of RoHS exempted, etc.》

If banned substance are contained, they must be clearly written.

Banned substance, content rate, portion/purpose and comment

* Regardless of threshold levels, fill in the columns for each homogeneous material.

* In the column of comment, clearly write that your products are applicable with RoHS, such as "items of RoHS exempted" and "impurities".

【How to Submit A Document】

By following the format of "Certificate of Disuse of Environmental Impacts Substances", fill in and submit a document.

Submit an original document with company seal or stamp by a responsible person.

When electronic data are submitted, send an original document to a person who requests the form.

YYYY/MM/DD

To TABUCHI ELECTRIC CO., LTD

Certificate of Non-use

Company name :
Job title :
Responsible person :
Contact person :
TEL :

We guarantee that prohibited substances listed below are not intentionally used to the parts delivered to the all Tabuchi Electric Group, exclude for exception use, and that those are not used in manufacturing processes.

Impurities, inclusion of RoHS exception use, etc. are guaranteed to be as described.

《Part》

Reference No.			
Part name	Part Code	Part Number	Remarks

《Banned Substance》

No	Substances group	No	Substances group
1	Cadmium/Cadmium compounds	18	Azocolourants and azodyes which from certain aromatic amines
2	Hexavalent chromium compounds	19	Ozone deplating substances *1
3	Lead/Lead compounds	20	Radioactive substances
4	Mercury/Mercury compounds	21	2-benzotriazol-2-yl-4,6-di-tert-butylphenol
5	Tributyl tin oxide (TBTO)	22	Specific phthalates (BBP, DBP, DEHP, DIDP, DINP, DNOP)
6	Tri-substituted organostannic compounds	23	Dimethyl fumarate
7	Dibutyltin compounds (DBT)	24	4 heavy metals (Cd, Pb, Cr6+, Hg)
8	Diocetyl tin compounds (DOT)	25	Shortchaine chlorinated paraffins (C10-C13)
9	Polybrominated biphenyls (PBBs)	26	Polycyclic aromatic hydrocarbons (PAHs)
10	Polybrominated diphenyl ethers (PBDEs)	27	Hexabromocycloddecane (HBCDD) and all major diastereoisomers
11	Polychlorinated diphenyls (PCBs) and specific substitutes	28	Perfluorooctanic acid (PFOA) and indivisual salts and esters of PFOA
12	Polychlorinated terphenyls (PCTs)	29	Aersenic compounds
13	Plychlorinated naphthalenes	30	Cobalt dichloride
14	Perchlorates	31	Natural rubber
15	Perfluorooctane sulfonate (PFOS)		
16	Selected Fluorinated green house gases (PFC, SF6, HFC)		
17	Asbestos		
*1 Substances defined in Montreal Protocol.			

《Impurities, Inclusion of RoHS exempted, etc.》

Banned Substance	Content Rate (ppm)	Portion/Purpose	Comment

Submission of High Precision Analysis Data

Submit two documents mentioned below.

Be careful when you prepare a document. If there is an incomplete form/mistake in the content/missing data, it is necessary to resubmit a document.

1. A "High Precision Analysis Data List" or an equivalent list of analysis data

《Basic Information》

Preparation date, company name, department name/job title, name of a person responsible for inquiries and stamp by a responsible person

《Response Sheet for Analysis Data on Six RoHS Substances》

Write part name, your formal part number, analyzed portion, a name of analysis institutions/name of a person responsible for measurement, an analysis method/measurement date and a pretreatment method.

List of data on six RoHS substances and items of RoHS exempted

* For each analysis method, necessary items to describe in a document are different. Therefore, refer to the column including the note.

* Fill in columns with a bar (-) mark where you do not need to specify anything.

RoHS compliant

* Fill in the column with "Y" for products compliant with RoHS and "N" for products not compliant with RoHS.

Remarks

* Fill in column with No. of a written report including detailed data associated with the analysis data or a part number of the representative part used as a substitute for the analysis data

2. High precision analysis data on six RoHS substances for each portion

Analysis data acquired with high precision analysis equipments or equivalent analysis equipments (ICP-AES, UV-VIS, GC/MS, etc.)

* Submit a set of data on each portion described in "High Precision Analysis Data List".

【How to Submit Documents】

By following the format of "High Precision Analysis Data List" or an equivalent format, fill in and submit documents.

Send an original document or copy to a person who requests the form or attach electronic data by e-mail.

