(Ver. 4.1)

Green Procurement Guidelines

Jan 22, 2025

Thai Toshiba Electric Industries Co., Ltd.

Adapted from TLSC Green Procurement Guideline

Version 4.1 / Sep 10, 2024

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1. Foreword

Thai Toshiba Electric Industries Co., Ltd. is vigorously promoting CSR (Corporate Social Responsibility) activities. Naturally, environmental management is central to that drive. In accordance with the Thai Toshiba Electric Industries Co., Ltd. Basic Policy for the Environment, we are working to protect the environment by stressing the “creation of new value” and championing “symbiosis with the Earth” throughout our business processes and products.

Environmental management involves tackling various issues. We believe that we have a responsibility to perform a comprehensive assessment of the environmental impacts of our products throughout their life cycles and in every phase, from product manufacturing and usage through to recycling of end-of-life products. Thai Toshiba Electric Industries Co., Ltd. is promoting green procurement as a measure during the manufacturing phase.

Green procurement involves procuring products, parts and components and materials, etc. with minimal environmental impacts from suppliers that vigorously promote environmental protection. To promote business in a way that reduces the environmental impacts and risks of hazardous chemical substances, activities encompassing the entire supply chain are necessary, for which the cooperation of suppliers, our business partners, is essential.

In our endeavors to achieve a sustainable society, we invite our suppliers to share our environmental goals and work hand in hand with us to make green procurement a resounding success.

Thai Toshiba Electric Industries Co., Ltd.

2. The Basic Policy for the Environment of Thai Toshiba Electric Industries Co., Ltd.

Thai Toshiba Electric Industries Co., Ltd. will continues creating more reliable and comfortable lifestyle to people around of the world with innovative technology as the company which carries design development, production and sale of goods for “Creating A Better Life In Homes Around The World” to corporate mission which accommodate to deliver the environment conscious product and the service added to regional characteristics.

Recognizing our responsibility to maintain the health of the global environment as an irreplaceable asset for future generations, Thai Toshiba Electric Industries Co., Ltd. will contributes to the development of a sustainable society for the future by promoting environmental activities designed to achieve a world that is decarbonized society, a resource circulating society, a society in harmony with nature.

◆ Promoting environmental management

1. We considers environmental stewardship to be one of management’s primary responsibilities and promotes environmental activities in harmony with economic activities as a group.
2. We comply with all laws and regulations, the industry guidelines it has endorsed, and its own environmental standards.
3. We assesses the impacts of its business activities, products and services on the environment, including with regard to biodiversity, and specifies objectives and targets concerning the reduction of environmental impacts and prevention of pollution.
4. We strive to continuously improve environmental management and the environment management level through internal audits and reviews of activities.
5. We strive to enhance the awareness of all its employees concerning the environment and requires that they make a practical contribution to the environment through their work.

◆ Providing environmentally-aware products and services and reducing their environmental impact through business activities

1. We recognizes that natural resources are finite and implements vigorous environmental measures to promote their effective and practical use, in terms of both products and business processes.
2. We develops and provides environmentally-aware products and services, which help reduce environmental impacts throughout their life cycles by energy conservation, resource saving, recycling material and reduction of hazardous substance according to the special quality of the product.
3. We strives to reduce the environmental impacts of all business processes, encompassing design, manufacturing, logistics, sale, and disposal, with a particular focus on Responding to climate change, efficient utilization of resources and control of chemical substances.

◆ **Collaboration With Stakeholders**

1. We contribute to society through its environmental activities, which include the development and provision of excellent, environmentally-aware technologies and products in cooperation with society at large and local communities.
2. We are committed to maximizing disclosure and transparency in communication with stakeholders and society at large to facilitate mutual understanding.

3. Objective of the Guidelines

In accordance with the Basic Policy for the Environment of Thai Toshiba Electric Industries Co., Ltd. , we are working to protect the environment by stressing the "creation of new value" and championing "symbiosis with the Earth" throughout our business processes and products. As part of these efforts, Thai Toshiba Electric Industries Co., Ltd. develops and provides environmentally conscious products and services, which help reduce environmental impacts throughout their life cycles. Green procurement is essential for that purpose.

The Guidelines show Green Procurement Standards of Thai Toshiba Electric Industries Co., Ltd., a basic concept of the company on green procurement, together with the specific contents of the Group's requests to our suppliers concerning the supply of parts and components, materials, units, products, secondary materials, etc. (hereinafter collectively referred to as "supply items").

Thai Toshiba Electric Industries Co., Ltd. is working with global environmental protection activities in cooperation with our suppliers through the procurement activities under the Green Procurement Standards described in the Guidelines.

4. The Green Procurement Standards of Thai Toshiba Electric Industries Co., Ltd.

Thai Toshiba Electric Industries Co., Ltd. defines green procurement as procuring products, parts and components, materials, etc. with minimal environmental impacts from suppliers that vigorously promote environmental protection. For that purpose, Thai Toshiba Electric Industries Co., Ltd. establishes the company's common green procurement standards and promotes the company's green procurement as described below.

4.1 Construction of the Environmental Management System (EMS)

As part of its efforts to promote environmental management, Thai Toshiba Electric Industries Co., Ltd. has been operating and constructing its environmental management system In procurement, suppliers positively engaged in environmental activities, including the construction of EMS, etc., are prioritized.

4.2 The management of chemical substances in procurement items

The management of chemical substances in procurement items is implemented with emphasis on the agreement in the JAMP (*i) and in line with the Guidelines on Chemical Substances in Products" issued by the JAMP.

*i: JAMP is an acronym for the Joint Article Management Promotion-consortium, a non-profit organization established in September 2006 to promote the construction of a mechanism for the smooth disclosure and dissemination of information on chemical substances in products in the supply chain. For details of its activities, please see the following URL:

JAMP URL： https://chemsherpa.net/jamp/about

4.3 The Environment-Related Substance List of Thai Toshiba Electric Industries Co., Ltd.

Thai Toshiba Electric Industries Co., Ltd. has established the "The Environment-Related Substance List of Thai Toshiba Electric Industries Co., Ltd."and manages chemical substances in procurement items by classifying them into the following two categories:

Category	Definition	Materials/substances
Rank A (Prohibited materials/substances)	Materials/substances whose presence is prohibited in procurement items (including packaging) in Thai Toshiba Electric Industries Co., Ltd. Materials/substances whose use in products (including packaging) is prohibited or restricted by domestic and foreign laws and regulations.	**Appendix 1**
Rank B (Managed materials/substances)	Materials/substances whose environmental impact should be reduced, based on their actual usage, via reduction of use and substitution, or recovery and detoxification in a closed system	**Appendix 2**

In addition, even if substances are not listed in the above list, if they are regulated by treaties, laws, etc. for individual destination country or products, please comply with them.

5. Requests to Suppliers

To promote green procurement, the Thai Toshiba Electric Industries Co., Ltd. requests suppliers, our business partners, to positively engage in the “promotion of environmental protection by suppliers,” “supply of products, parts and components, materials, etc. with minimal environmental impact,” “conclusion of agreements for securing environmental quality of procurement items” and “cooperation in various surveys.” We request suppliers to understand our requests and survey objectives and cooperate with us.

5.1 Promotion of environmental protection by suppliers

We request suppliers to vigorously engage in environmental protection (establishment of environmental policy, implementation of system, provision of training and education, regard to biodiversity etc.)

When transporting Procurement Item, please deliver by fuel-efficiency and a low-emission vehicle. Please use a car suitable for supplies. And please reduce the environmental load which occurs at supply as far as it's possible.

5.2 Supply of products, parts and components, materials, etc. with minimal environmental impacts

Suppliers from which we receive items are requested to implement thorough management of chemical substances in products, including the following actions:

(1) Establishment of a system for management of chemical substances in products.

(2) Procurement of parts, components and materials with minimal environmental impacts (green procurement), including a reduction in the use of hazardous chemical substances.

(3) Response to the survey of Thai Toshiba Electric Industries Co., Ltd. on the usage of environment-related substances.

5.3 Conclusion of agreements for assuring environmental quality of procurement items

To ensure the environmental quality of procurement items, we request each supplier to conclude a Quality Assurance Agreement prior to transactions. In addition, we may request a supplier to submit an Agreement Concerning the Restriction of the Use of Specified Hazardous Substances as necessary.

5.4 Cooperation in surveys

5.4.1 Survey of suppliers’ environmental protection activities

To strengthen partnerships with suppliers that are vigorously engaged in environmental protection activities, we conduct surveys of suppliers’ environmental protection activities, mainly on the

following items:

<Survey items>
Situations regarding the following:
(1) Gaining of ISO 14001 certification
(2) Green procurement activities
(3) Environmental protection activities
  a) Environmental policy
  b) Organizations and plans
  c) Environmental aspects of the business and systems
  d) Information disclosure and training and education
(4) Others

5.4.2 Surveys of suppliers' chemical substance management systems

We conduct surveys of suppliers' chemical substance management systems with the aim of having them establish/maintain systems to manage chemical substances in products.

5.4.3 Surveys of chemical materials/substances in procurement items

Prior to the approval of new procurement items and judgment as to whether existing procurement items require substitution, we conduct surveys concerning the presence of the chemical materials/substances in procurement items. The survey contents may change according to the types and necessity of supply items, with the main survey items as follows:

<Survey items>
(1) Confirmation of the non-use of prohibited substances via the "Declaration of Use/Non-use of Environment-Related Substances"
(2) Survey on the analysis and evaluation results
(3) Other surveys necessary to ensure the matters requested as mentioned above
And the survey contents individually according to the types and necessity of supply items, with the main survey items as follows:
(4) Survey on the use/non-use and content of any substance of very high concern (SVHC,*ii) to be a candidate for authorization under the EU REACH Regulations (one of the regulations on chemical substances)
*ii: A substance of very high concern (SVHC) is one meeting the standards in Article 57 of the EU REACH Regulations and selected as a candidate substance for authorization under the procedures in Article 59 of the Regulations.

Attachment 1: The list of environment-related materials/substances of Thai Toshiba Electric Industries Co., Ltd. (in products)

(Appendix 1) Rank A: Prohibited materials/substances (category)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A01	Asbestos	Prohibition of intentional addition	EU REACH Regulation (Annex XVII), JPN Industrial Safety and Health Law (Prohibition of Manufacturing)
A02	Certain azocolourants and azodyes (only those that may release certain amines)	Prohibition of intentional addition(*6)	EU REACH Regulation (Annex XVII)
A03	Cadmium and cadmium compounds	Prohibition of intentional addition, and 100 ppm (*1, *4)	EU RoHS Directive, EU REACH Regulation (Annex XVII), EU Packaging Directive
A04	Hexavalent chromium compounds	Prohibition of intentional addition,and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII), EU Packaging Directive
A05	Lead and lead compounds	Prohibition of intentional addition,and 1000 ppm (*1, *4)	EU RoHS Directive, EU REACH Regulation (Annex XVII), EU Packaging Directive
A06	Mercury and mercury compounds	Prohibition of intentional addition,and 1000 ppm (*1, *4)	EU RoHS Directive, EU REACH Regulation (Annex XVII),EU Packaging Directive
A07	Ozone depleting substances (CFCs, HCFCs, HBFCs, carbon tetrachloride, etc.)	Prohibition of intentional addition(*7)	Montreal Protocol, JPN Ozone Layer Protection Law
A08	Polybrominated biphenyls (PBBs)	Prohibition of intentional addition,and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII)
A09	Polybrominated diphenylethers (PBDEs)	Prohibition of intentional addition,and 1000 ppm (*1)	JPN CSCL (Class 1), U.S. TSCA PBT Rules, EU RoHS Directive
A10	Polychlorinated biphenyls (PCBs)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A11	Polychlorinated naphthalenes (more than 3 chlorine atoms)	Prohibition of intentional addition	JPN CSCL (Class 1),EU POPs Regulation

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A12	Radioactive substances	Prohibition of intentional addition	JPN Act on Prevention of Radiation Hazards due to Radioisotopes, etc. JPN Nuclear Reactor Regulation Law
A13	Certain short chain chlorinated paraffins (with a carbon chain length of between 10 and 13)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A14	Tributyl tin (TBT) and triphenyl tin (TPT)	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A15	Tributyl tin oxide (TBTO)	Prohibition of intentional addition	JPN CSCL (Class 1), EU REACH Regulation (Annex XVII)
A16	4-Aminodiphenyl and its salt	Prohibition of intentional addition	JPN CSCL (Class 1)
A17	1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene (also known as Aldrin)	Prohibition of intentional addition	JPN CSCL (Class 1) POPs Regulation
A18	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5.8-dimethanonaphthalene (also known as Endrin)	Prohibition of intentional addition	JPN CSCL (Class 1) POPs Regulation
A19	Yellow phosphor (e.g. contained in match powder in some cases)	Prohibition of intentional addition	JPN CSCL (Class 1)
A20	Mixture of 1,2,4,5,6,7,8,8-octachloro -2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene,1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene,and their analogous compounds (also known as Chlordane or Heptachlor	Prohibition of intentional addition	JPN CSCL (Class 1) POPs Regulation

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A21	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylenediamine	Prohibition of intentional addition	JPN CSCL (Class 1)
A22	Dioxins	Prohibition of intentional addition	Law Concerning Special Measures against Dioxins
A23	1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane (also known as DDT)	Prohibition of intentional addition	JPN CSCL (Class 1) POPs Regulation
A24	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano naphthalene (also known as Dieldrin)	Prohibition of intentional addition	JPN CSCL (Class 1) POPs Regulation
A25	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1] heptane (also known as Toxaphene)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A26	2,4,6-tri-tert-butylphenol	Prohibition of intentional addition	JPN CSCL (Class 1), TSCA PBT Rules
A27	Beta-naphthylamine and its salt	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A28	4-nitrodiphenyl and its salt	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A29	Bis(chloromethyl) ether	Prohibition of intentional addition	JPN Industrial Safety and Health Law
A30	Hexachlorobenzene	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A31	Benzidine and its salt	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A32	Benzene	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A33	2-(2H-1,2,3-benzotriazol-2-il)-4,6-di-tert-butylphenol	Prohibition of intentional addition	JPN CSCL (Class 1)

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A34	Dodecachloropentacyclo [5.3.0.0(2,6).0(3,9).0(4,8)] decane (also known as Mirex)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A35	2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol (also known as Kelthane or Dicofol)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A36	Hexachlorobuta-1,3-diene (also known as Hexachlorobutadiene)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A37	Perfluoro(octane-1-sulfonic acid) (also known as PFOS) or its salt	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A38	Perfluoro(octane-1-sulfonyl) fluoride (also known as PFOSF)	Prohibition of intentional addition	JPN CSCL (Class 1),EU POPs Regulation
A39	Polychlorinated terphenyls (PCTs)	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A40	Tri-substituted organostannic compounds (excluding A14 and A15)	Prohibition of intentional Addition, and 1000 ppm (*2)	EU REACH Regulation (Annex XVII)
A41	Dimethyl fumarate (DMF)	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A42	Pentachlorobenzene	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A43	r-1,c-2,t-3,c-4,t-5,t-6-Hexachloro-cyclohexane (also known as α-Hexachlorocyclohexane)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A44	r-1,t-2,c-3,t-4,c-5,t-6-Hexachloro-cyclohexane (also known as β-Hexachlorocyclohexane)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A45	r-1,c-2,t-3,c-4,c-5,t-6-Hexachloro -cyclohexane(also known as γ-Hexachlorocyclohexane or Lindane)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A46	Decachloropentacyclo ($5.3.0.0^{2,6}.0^{3,9}.0^{4,8}$) decane-5-one (also known as Clordecone)	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A47	Dioctyltin compounds (DOT)	Prohibition of intentional addition, and 1000 ppm (*2,*3)	EU REACH Regulation (Annex XVII)
A48	Dibutyltin compounds (DBT)	Prohibition of intentional addition, and 1000 ppm (*2, *3)	EU REACH Regulation (Annex XVII)
A49	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide（also known as Benzoepin or Endosulfan）	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A50	Hexabromocyclododecane（also known as HBCD）	Prohibition of intentional addition	EU REACH Regulation (Annex XVII)
A51	Certain polycyclic aromatic hydrocarbons（PAHs）	Only parts in contact with human bodies, and 1 ppm（*3, *5）	EU REACH Regulation (Annex XVII)
A52	Bis (**2**-ethylhexyl)phthalate（DEHP）	Prohibition of intentional addition, and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII)
A53	Dibutyl phthalate（DBP）	Prohibition of intentional addition, and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII)
A54	Butyl benzyl phthalate (BBP)	Prohibition of intentional addition, and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII)
A55	Diisobutyl Phthalate（DIBP）	Prohibition of intentional addition, and 1000 ppm (*1)	EU RoHS Directive, EU REACH Regulation (Annex XVII)
A56	Red phosphorus (flame retardant application in the resin)	Prohibition of intentional addition (*8)	Designated by TLSC
A57	Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances	Prohibition of intentional addition and 1. PFOA and its salts 25 ppb(0.025 ppm) 2. PFOA-related compounds 1000 ppb(1ppm) of one or a combination of PFOA-related compounds, in an article or a mixture	JPN CSCL (Class 1), EU POPs Regulation

No.	Material/substance category	Threshold of concentration to be prohibited in supplies to TTEI	Reference Laws and regulations
A58	Pentachlorothiophenol (PCT)	Prohibition of intentional addition	U.S. TSCA PBT Rules
A59	Perfluorocarboxylic acids containing C9 to C14 (C9-C14 PFCAs), their salts and C9-C14 PFCAs-related substances	Prohibition of intentional addition and 1. C9-C14 PFCAs and their salts Prohibition of 25 ppb(0.025 ppm)of C9-C14 PFCAs including their salts in an article or a mixture 2. C9-C14 PFCAs-related Substances 260 ppb(0.26 ppm)of one or a combination of C9-C14 PFCAs-related substances, in an article or a mixture	EU REACH Regulation (Annex XVII)
A60	Perfluoro (hexane-1-sulfonic acid) (PFHxS) or perfluoro(alkanesulfonic acid) (limited to those with a branched structure and six carbon atoms) or their salts	Prohibition of intentional addition	JPN CSCL (Class 1), EU POPs Regulation
A61	Tris(isopropylphenyl)phosphate (PIP(3:1))	Prohibition of intentional addition	U.S. TSCA PBT Rules

"Intentional addition" means using chemical substances intentionally in forming supply items to bring about specific properties, appearance or quality.

(*1) The threshold of concentration to be prohibited means no intentional addition and the rate of content of each material/substance as an impurity. The denominator when calculating a threshold value shall be for each homogeneous material. Only applications exempt from the EU RoHS Directive shall be exempt from the prohibition.

Only about battery is not applied EU RoHS Directive, but it given priority to the EU battery instructions. The substance which indicated (*4) gives priority to the following (*4) content.

(*2) The threshold of concentration to be prohibited means no intentional addition and the rate of content of each material/substance as an impurity. The numerator when calculating a threshold value

shall be an equivalent for metal tin (Sn), and the denominator shall be for each molded item or its component (including mixtures only for DBT).
(*3) The target substance groups and uses are listed in the Annex XVII of the EU REACH regulations. However, only the applications allowed for use covered by the exemptions and time limits specified in the Annex XVII of the EU REACH Regulations shall be exempt from the prohibition of use.
(*4) If it is used for batteries, check the case where sales are prohibited or the necessity of displaying with the latest laws and regulations of the destination country.
(*5)「Only parts in contact with human bodies」 is the rubber or the plastic component which is touched directly to the man's skin and the mouth by long time or a short time repeatedly under the usual use method or use method which can be expected theoretically. When delivering if the substances is containing beyond a threshold, indicate a use part and the use on use/non-use declaration sheet of environment-related substances of the parts.
(*6) Azo dyes and azo pigments in A02 are limited to those that form specific amines shown in Table 3.
(*7) The ozone-depleting substances in A07 are limited to those listed in Attached Table 4.
(*8) The end products which use the parts and material containing red phosphorus are excepted when there are a plan of substitution-izing and data of safety.

(Appendix 2) Rank B: Managed materials/substances (Group)

No.	Material/substance category
B01	Antimony and its compounds
B02	Arsenic and its compounds
B03	Beryllium and its compounds
B04	Brominated flame retardants, other than PBBs (A08) and PBDEs (A09) (*9)
B05	Nickel and its compounds (only parts in contact with human bodies)
B06	Certain phthalates, other than DEHP (A52), DBP (A53), BBP (A54), DIBP (A55) (*9)
B07	Polyvinylchloride and its compounds (PVC) (*9)
B08	Selenium and its compounds
B09	Perfluorocarbons (PFCs)
B10	Hydrofluorocarbons (HFCs)
B11	Sulfur hexafluoride (SF6)
B12	Substances of Very High Concern (SVHC) under the EU REACH Regulations (*10)

(*9) When the density of these materials exceeds 1,000ppm, we will keep track of the actual use of these substances as managed substances, so please report them to us.

(*10) The Substances of Very High Concern (SVHC) selected under the procedures specified in the Article 59 of the EU REACH Regulations. The denominator shall be the total mass of a supply item or each component/material.

(Appendix 3) Formed by decomposition of one or more azo groups

Substance	Chemical formula	CAS No.
4-aminoazobenzene	$C_{12}H_{11}N_3$	60-09-3
o－anisidine	C_7H_9NO	90-04-0
2-naphtylamine（β-naphtylamine）	$C_{10}H_9N$	91-59-8
3,3’-dichlorobenzidine	$C_{12}H_{10}Cl_2N_2$	91-94-1
4-aminobiphenyl	$C_{12}H_{11}N$	92-67-1
benzidine	$C_{12}H_{12}N_2$	92-87-5
o-toluidine	C_7H_9N	95-53-4
4-chloro-2-methylaniline	C_7H_8ClN	95-69-2
2,4-toluylendiamine	$C_7H_{10}N_2$	95-80-7
o-aminoazotoluene	$C_{14}H_{15}N_3$	97-56-3
5-nitro-o-toluidine	$C_7H_8N_2O_2$	99-55-8
3,3'-dichloro-4,4'-diaminodiphenylmethane	$C_{13}H_{12}Cl_2N_2$	101-14-4
4,4’-methylenedianiline	$C_{13}H_{14}N_2$	101-77-9
4,4’-diaminodiphenylether	$C_{12}H_{12}N_2O$	101-80-4
p-chloroaniline	C_6H_6ClN	106-47-8
3,3’-dimethoxybenzidine	$C_{14}H_{16}N_2O_2$	119-90-4
3,3’-dimethylbenzidine	$C_{14}H_{16}N_2$	119-93-7
2-methoxy-5-methylaniline	$C_8H_{11}NO$	120-71-8
2,4,5-trimethylaniline	$C_9H_{13}N$	137-17-7
4,4'-diaminodiphenyl sulfide	$C_{12}H_{12}N_2S$	139-65-1
2,4-diaminoanisole	$C_7H_{10}N_2O$	615-05-4
4,4'-diamino-3,3'-dimethyldiphenylmethane	$C_{15}H_{18}N_2$	838-88-0

(Appendix 4) Ozone depleting substances

CFC	(Montreal Protocol	Annex A	Group I)
Halon	(Montreal Protocol	Annex A	Group II)
Other CFC	(Montreal Protocol	Annex B	Group I)
Carbon tetrachloride	(Montreal Protocol	Annex B	Group II)
1,1,1-trichloroethane	(Montreal Protocol	Annex B	Group III)
HCFC	(Montreal Protocol	Annex C	Group I)
HBFC	(Montreal Protocol	Annex C	Group II)
Bromochloromethane	(Montreal Protocol	Annex C	Group III)
Methyl bromide	(Montreal Protocol	Annex E)	

Requirements for packaging materials:

All packaging materials to be supplied, not limited to individual packaging, must fulfill the requirements of Appendix 1. "Requirements for environment-related substances control for articles to be supplied", and also must not include substances listed in Appendix 5. For substance where a maximum tolerance concentration is defined, any inclusion exceeding that concentration is prohibited. For substances that do not define a maximum tolerance concentration, intentional inclusion is prohibited.

(Appendix 5) Substances whose inclusion in the packaging to be supplied is prohibited

Ref. No.	Substance	Restriction	Maximum tolerance concentration (*a)(*b)
A03-06	Lead, cadmium, mercury, hexavalent chromium and their compounds	Inclusion of cadmium, hexavalent chromium, lead, mercury and their compounds in the packaging when the accumulated concentration of these substances at any portion of the packaging exceeds the maximum tolerance concentration.	0.01wt% (100ppm)
B7	Polyvinyl chloride (PVC)	Intentional inclusion of PVC in the packaging	- (Intentional inclusion)

(*a) The maximum permissible concentration is in units of homogenous material.

(*b) The maximum permissible concentration of metal compounds represents the mass ratio of metal elements to materials.

Table of revisions

Established on: October 17, 2016

Edition No.	Date of establishment/ revision	Reason and contents of revision
1	2016.10.17	Newly issued (adapted from TLSC Green procurement guidelines version 2 /April 1,2015)
2	2017.1.16	Revise detail follow as TLSC Green procurement guidelines version 3/Jan 1,2017 (File 170101)
3	2017.3.01	Revise detail follow as TLSC Green procurement guidelines version 3/Jan 1,2017 (File 170214)
4	2023.10.16	Updated the basic environmental policy and reviewed the list of environment-related substances follow as TLSC Green procurement guidelines version 4/May 26,2023
5	2025.01.22	-Change cover logo -Two new prohibited substances added to Appendix 1 (Follow as TLSC Green procurement guidelines version 4.1/Sep 10,2024)

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