

IKO Green Procurement Standards

Version 18

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IKO 日本トムソン株式会社
NIPPON THOMPSON CO.,LTD.

Introduction

Since fiscal year 1998, NIPPON THOMPSON CO., LTD. has been operating under the basic principles of "conducting environmentally friendly corporate activities, reducing its environmental impact, and contributing to the realization of a rich global environment" as its corporate social responsibility.

We believe that delivering environmentally friendly products to our customers leads to conserving our global environment. We therefore established "Green Procurement Standards" in 2003 and have since been promoting green procurement with the understanding and cooperation of our customers.

In recent years, legal regulations and society's demand for environmental consideration has increased in Europe as well as other parts of the world. To keep up with this changing demand, we have decided to review our environmental control standards and revise our "Green Procurement Standards."

Based on these standards, we will investigate and evaluate our environmental impact as it relates to our customers and commodities that we procure in order to promote our green procurement even further and contribute to the realization of a rich global environment together with our customers. We appreciate your understanding and cooperation on the importance of our green procurement initiative.

Toyohisa Ishihara,

Officer in Charge of Supervising Chemicals Contained in Products

Managing Executive Officer

NIPPON THOMPSON CO., LTD.

1. Purpose of Green Procurement

To deliver environmentally friendly products to our customers through green procurement. To that end, we will prioritize transactions with customers who are actively committed to the conservation of the global environment.

2. Scope of application of green procurement

These standards apply to commodities (raw materials, parts, packing materials, and oils) constituting our products.

※ Excluding mechatronic electrical parts

3. Control standards for chemicals in commodities constituting our products

The control standards for chemicals are shown in Tables 1 and 2.

For prohibited substances it is necessary to **prohibit their intentional use**, and for substances subject to regulation, to guarantee that their concentration, including impurities, is within regulation levels. Controlled substances are those whose utilization status should be monitored in connection with health, safety and hygiene, appropriate disposal, and other aspects. Their intentional use does not need to be limited, but their data should be monitored regarding how they are used and their concentration levels.

4. Requests for our customers

To promote green procurement, it is important to obtain the understanding and cooperation of our customers. Before committing to a transaction, if we deem it necessary to review our Chemical Control Standards and/or other activities, we will investigate how our customers engage in their environmental conservation activities and how considerate they are to the environment as it relates to the commodities that we procure from them.

1) Status investigation of the environmental conservation activities of our customers

Please evaluate whether external certification under ISO 14001 has been obtained or evaluate the voluntary environmental control activities and respond on the "Evaluation Sheet for Customer Control of Chemicals."

*Customers whose evaluation efforts are marked as "Corrective action needed" are requested to work voluntarily to step up their environmental control and strive to improve their evaluation ranks.

2) Status investigation of the control of chemicals in commodities we procure

Regarding prohibited substances and controlled substances in commodities we procure, please investigate your control status and whether you include them in the commodities and respond on the "List of Commodities Used and Not Used."

If submitting the "List of Commodities Used and Not Used." is difficult, we may request documentation of the following matters:

- (a) Submittal of electronic data (chemSHERPA) set forth by the Joint Article Management Promotion-consortium (JAMP) <https://chemsherpa.net/english>
- (b) Submittal of "analysis data" based on the contents of prohibited substances as measured by ICP-AES, etc.
- (c) Submittal of a "Non-use Guarantee" that guarantees the non-use of prohibited substances
- (d) Submittal of mill sheets or SDS (MSDS)

We may also request that you include the investigation related to substances that are regulated by laws or other regulations. We appreciate your cooperation

Table 1: Prohibited substances

No.	Substances	CAS Number	Applications	Tolerance limit	Applicable laws and regulations (Representative example)
A-1	Cadmium and its compounds	—	Batteries Other than the uses indicated above	10ppm ※1 100ppm ※1,※2	EU / Battery Directive EU / RoHS Directive
A-2	Lead and its compounds	—	Batteries Other than the uses indicated above	40ppm ※1 1000ppm ※1,※2	EU / Battery Directive EU / RoHS Directive
A-3	Mercury and its compounds	—	Batteries Other than the uses indicated above	1ppm ※1 1000ppm ※1,※2	EU / Battery Directive
A-4	Chromium (VI) compounds	—	All uses	1000ppm ※1,※2	EU / RoHS Directive
A-5	Polybrominated biphenyls (PBBs)	—	All uses	1000ppm ※1	
A-6	Polybrominated diphenyl ethers (PBDEs)	—	All uses	1000ppm ※1	
A-7	Phthalate 4 kinds (DEHP, DBP, BBP, DIBP) • Bis(2-ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP)	— 117-81-7 85-68-7 84-74-2 84-69-5	All uses	1000ppm ※1,※5	EU / RoHS Directive
A-8	Tri-substituted organostannic compounds	—	All uses	1000ppm	EU / REACH Regulation Annex X VII
A-9	Dibutyltin (DBT) compounds	—	All uses	1000ppm	EU / REACH Regulation Annex X VII
A-10	Bis(tributyltin) oxide (TBTO)	56-35-9	All uses	1000ppm	EU / REACH Regulation Annex X VII
A-11	Asbestos	—	All uses	Intentional addition	EU / REACH Regulation Annex X VII
A-12	Dimethyl fumarate (DMF)	624-49-7	All uses	0.1ppm	EU / REACH Regulation Annex X VII
A-13	Arsenic compounds	—	Use as wood preservative	Prohibited ※3	EU / REACH Regulation Annex X VII
A-14	Polychlorinated terphenyls (PCTs)	—	All uses	50ppm	EU / REACH Regulation Annex X VII
A-15	Polychlorinated biphenyls (PCBs) and specific substitutes • Polychlorinated Biphenyls (all isomers and congeners) • Monomethyl-tetrachloro-diphenyl methane (Ugilec 141) • Monomethyl-dichloro-diphenyl methane (Ugilec 121, Ugilec 21) • Monomethyl-dibromo-diphenyl methane (DBBT)	— 1336-36-3 and others 76253-60-6 81161-70-8 99688-47-8	All uses	Intentional addition	Japan / Chemical Substance Control Law
A-16	Polychlorinated naphthalene (PCNs)(1 or more chlorine atoms)	—	All uses	Intentional addition	Japan / Chemical Substance Control Law
A-17	2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320)	3846-71-7	All uses	Intentional addition	Japan / Chemical Substance Control Law
A-18	Hexabromocyclododecane (HBCDD) and all major diastereoisomers • Hexabromocyclododecane (HBCDD) • 1,2,5,6,9,10-hexabromocyclododecane • α-hexabromocyclododecane • β-hexabromocyclododecane • γ-hexabromocyclododecane	— 25637-99-4 4736-49-6 65701-47-5 138257-17-7 138257-18-8 138257-19-9 169102-57-2 678970-15-5 678970-16-6 678970-17-7 3194-55-6 134237-50-6 134237-51-7 134237-52-8	All uses	Intentional addition	POPs Convention
A-19	Short Chain Chlorinated Paraffins(C10-C13) (SCCP)	—	All uses	Intentional addition or 0.1 weight% (1000 ppm) of the article	POPs Convention
A-20	Cobalt dichloride	—	Indicator in desiccant	Prohibited ※3	EU / REACH Regulation Annex X VII
A-21	Beryllium oxide	1304-56-9	All uses	1000ppm	Japan / Industrial Safety and Health Act
A-22	Polyvinyl chloride (PVC) and its mixtures	—	All uses	Prohibited ※4	US / JS709
A-23	Formaldehyde	50-00-0	Wooden products	Prohibited ※3	US / TSCA
A-24	Perfluorooctane sulfonate (PFOS) and its salts	—	All uses	1000ppm	POPs Convention
A-25a	Perfluorooctanoic acid (PFOA) and its salts	PFOA:335-67-1	All uses	25ppb	POPs Convention
A-25b	PFOA-related substances	—	All uses	1000ppb	
A-26	Perfluorohexane-1-sulphonic acid (PFHxS) , its salts, and PFHxS-related substances	—	All uses	Intentional addition or the sum of PFHxS and their salts: 0.0000025% (25ppb) of the article	POPs Convention
A-27a	Perfluorocarboxylic acids (C9-C14 PFCAs) and its salts	—	All uses	25ppb	EU / REACH Regulation Annex X VII
A-27b	Perfluorocarboxylic acids (C9-C14 PFCAs)-related substances	—	All uses	260ppb	

A-28	Tris phosphat • Tris (2-chloroethyl) phosphate (TCEP) • Tris (1-chloro-2-propyl) phosphate (TCPP) • Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)	—	All uses	1000ppm	US / domestic law
		115-96-8			
		13674-84-5			
		13674-87-8			
A-29	Halogen compounds and halogen resins	—	All uses Applications for packaging and protection (cases, cushioning materials, etc.)	1000ppm Intentional addition ※ 3	US / domestic law Japan / Eco Mark
A-30	Ozone depleting substances	—	All uses	Intentional addition	Montreal Protocol
A-31	Dechlorane Plus™ (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)	13560-89-9	All uses	Intentional addition	POPs Convention
		135821-74-8			
		135821-03-3			
A-32	Decabromodiphenyl ether (DecaBDE)	1163-19-5	All uses	Intentional addition	US/TSCA (PBT chemicals)
A-33	Phenol, Isopropylated, Phosphate (3:1) (PIP(3:1))	68937-41-7	All uses	Intentional addition	US/TSCA (PBT chemicals)
A-34	2,4,6-Tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	All uses	Intentional addition	US/TSCA (PBT chemicals)
A-35	Pentachlorothiophenol (PCTP)	133-49-3	All uses	Intentional addition	US/TSCA (PBT chemicals)
A-36	Hexachlorobutadiene (HCBD)	87-68-3	All uses	Intentional addition	US/TSCA (PBT chemicals)
A-37	Long-chain (C9-C21) perfluorocarboxylic acids (PFCAs), their salts and related compounds	—	All uses	1000ppb	Canada / Prohibition of Certain Toxic Substances Regulations
A-38	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	All uses	Intentional addition	POPs Convention
A-39a	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	—	Packaging materials/printed matter	0.1% by weight (1000ppm) in ink	French / Circular Economy Law
A-39b	Mineral oil aromatic hydrocarbons (MOAH) comprising 3 to 7 aromatic rings	—	Packaging materials/printed matter	0.0001% by weight (1ppm) in ink	French / Circular Economy Law
A-39c	Mineral oil aromatic hydrocarbons (MOAH) comprising 16 to 35 aromatic rings	—	Packaging materials/printed matter	0.1% by weight (1000ppm) in ink	

- ※1 Approved for usage if covered by EU RoHS II exemption rules.
 ※2 The total content of cadmium, mercury, chromium (VI), and lead in homogeneous materials.
 ※3 No investigation is required for other applications for packaging materials.
 ※4 The usage and content ratio must be declared if it's hard to maintain the quality standard.
 ※5 The total of phthalate esters must be less than 1000 ppm in the plasticized material.

Table 2: Controlled substances

No.	Substance Name	CAS Number	Example Applications	Relevant Regulations / Laws (Representative)
B-1	Arsenic and its compounds (including calcium arsenate, triethyl arsenate, arsenic pentoxide, arsenic trioxide)	Arsenic pentoxide: 303-28-2 Arsenic trioxide: 1327-53-3	Paints, Flame retardants, Semiconductors, Wood antiseptics	REACH Regulation Annex XVII
B-2	Beryllium and its compounds (excluding beryllium oxide)	—	Alloys and ceramic materials	REACH Regulation Annex XVII
B-3	Organic bromine compounds, brominated flame retardants(BFR) (excluding PBBs, PBDEs, HBCDD)	—	Flame retardants	JEDEC JS709 IPC-4101 IEC61249-2-21
B-4	Nickel and nickel compounds	—	Plating, Surface treatment, Stainless steel, Carbon steel	REACH Regulation Annex XVII
B-5	Phthalate esters (DIDP, DINP, DNOP)	28553-12-0	Plasticizers, Adhesives, Lubes	REACH Regulation Annex XVII
		68515-48-0		
		26761-40-0		
		68515-49-1 117-84-0		
B-6	Organic chlorine compounds (excluding PCBs, PCNs, PCTs, SCCPs), chlorine-based flame retardants (CFR) (excluding TCEP, TCPP, TDCPP)	—	Flame retardants, Plasticizers	JEDEC JS709, IPC-4101 IEC61249-2-21
B-7	Perchlorates	—	Coin cell batteries	U.S. Perchlorate Contamination Prevention Act 2003
B-8	Refractory ceramic fibers (RCF), aluminosilicate	—	Heat insulators	REACH Regulation Candidate List for Authorization
B-9	Refractory ceramic fibers (RCF), zirconia aluminosilicate	—	Heat insulators	REACH Regulation Candidate List for Authorization
B-10	Boric acid	—	Plate starch additives and flame retardants, pH adjustors, Flame retardants and antiseptics for wood	REACH Regulation Candidate List for Authorization
B-11	Disodium tetraborate anhydrous	—	Plate starch additives and flame retardants. pH adjustors, Flame retardants for wood	REACH Regulation Candidate List for Authorization

B-12	Sodium tetraborate tetrahydrate (disodium tetraborate hydrate)	12267-73-1	Plate starch additives and flame retardants, pH adjustors, Antiseptics for wood	REACH Regulation Candidate List for Authorization
B-13	Boron trioxide	1303-86-2	Plate starch flame retardants, Glass and optical fibers	REACH Regulation Candidate List for Authorization
B-14	[4-{Bis(4-dimethylamino phenyl)methylene}-2,5-cyclohexadiene-1-ylidene] dimethyl ammonium chloride (also known as CI Basic Violet 3)	548-62-9	Plastic or paint dyes, Ink	REACH Regulation Candidate List for Authorization
B-15	4-(1,1,3,3-Tetramethylbutyl)phenol (also known as 4-tert-octylphenol)	140-66-9	Surface-active agents, Synthetic raw materials for lipophilic phenol resin, Unreacted substances	REACH Regulation Candidate List for Authorization
B-16	Bis(2-methoxyethyl)ether	111-96-6	Electrolyte for batteries	REACH Regulation Candidate List for Authorization
B-17	N,N-Dimethylacetamide (DMAC)	127-19-5	Solvents, Catalysts, Unreacted substances	REACH Regulation Candidate List for Authorization
B-18	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Polyurethane hardeners	REACH Regulation Candidate List for Authorization
B-19	1,2-Dimethoxyethane (also known as ethylene glycol dimethyl ether (EGDME))	110-71-4	Electrolyte for lithium ion batteries, Ink for ink jets	REACH Regulation Candidate List for Authorization
B-20	Tris(dimethylphenyl)phosphate	25155-23-1		REACH Regulation Candidate List for Authorization
B-21	Dibutyltin dichloride (DBTC)	683-18-1	Insulating material for wire coatings	REACH Regulation Candidate List for Authorization
B-22	Triethylene glycol dimethyl ether (TEGDME)	112-49-2	Electrolyte for lithium ion batteries, Ink for ink jets	REACH Regulation Candidate List for Authorization
B-23	1,2-Diethoxyethane	629-14-1	Electrolyte for lithium ion batteries	REACH Regulation Candidate List for Authorization
B-24	N,N-Dimethylformamide	68-12-2	Electrolyte for electrolytic condenser for low-temperature environment	REACH Regulation Candidate List for Authorization
B-25	4-Aminoazobenzene	60-09-3	Pigments	REACH Regulation Candidate List for Authorization
B-26	Imidazolidine-2-thione (2-Imidazolin-2-thiol)	96-45-7	Adhesives for two-side tape, Accelerator for imidazoline type	REACH Regulation Candidate List for Authorization
B-27	C.I. Direct Black 38	1937-37-7	Dyes, Ink	REACH Regulation Candidate List for Authorization
B-28	3,3'-(Biphenyl-4,4'-diylbisazo)bis(4-amino-1-naphthalenesulfonic acid sodium salt) (C.I. Direct Red 28)	573-58-0	Substantive dyes of paper and fabric, Vital stain, Vital stain for yeast, pH indicator	REACH Regulation Candidate List for Authorization
B-29	4-Nonylphenol, branched and linear ethoxylates	—	Paint, Lacquer, Varnish	REACH Regulation Candidate List for Authorization
B-30	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	—	REACH Regulation Candidate List for Authorization
B-31	Methylene chloride	75-09-2	Adhesives, Encapsulants, Degreasing, Cleaning	The first ten substances to undergo risk evaluation under TSCA
B-32	1-Bromopropane	106-94-5	Adhesives, degreasing, cleaning	
B-33	1,2,5,6-Tetrabromocyclooctane	3194-57-8	Flame retardants, Solder	
B-34	Carbon tetrachloride (also known as tetrachloromethane)	56-23-5	Refrigerant	
B-35	1,4-Dioxane	123-91-1	Ink and adhesives, Solvent to dissolve encapsulants	
B-36	N-Methyl-2-pyrrolidone (NMP)	872-50-4	Solvents used to make petrochemicals	
B-37	Perchloroethylene	127-18-4	Adhesives for painting and crafts, Stainless steel abrasives	
B-38	Pigment Violet 29	81-33-4	Ink, Paint	
B-39	Trichloroethylene (TCE)	79-01-6	Cleaning, Painting	U.S. PFAS Contamination Prevention Act
B-40	PFAS (Perfluoroalkyl substances, polyfluoroalkyl substances, and their salts)	—	Foam firefighting agents, Packaging products, Electronics, Lubricating oil	
B-41	Medium-chain chlorinated paraffins (MCCP)	—	Flame retardants, Lubes, Coolants	REACH Regulation Candidate List for Authorization

History of revisions of the Green Procurement Standards

Revision Date	Version	Main revised contents
September 1, 2003	1	Established on
August 26, 2005	2	Revised in response to a review, etc. of the Chemicals Control Standards.
May 15, 2006	3	Revised in response to a review, etc. of the Chemicals Control Standards.
August 1, 2007	4	Revised in response to a review, etc. of the Chemicals Control Standards.
April 20, 2009	5	Revised in response to a review, etc. of the Chemicals Control Standards.
April 21, 2010	6	Revised in response to a review, etc. of the Chemicals Control Standards.
April 28, 2011	7	Revised in response to a review, etc. of the Chemicals Control Standards.
April 23, 2012	8	Revised in response to a review, etc. of the Chemicals Control Standards.
May 31, 2013	9	Revised in response to a review, etc. of the Chemicals Control Standards.
April 30, 2014	10	Revised in response to a review, etc. of the Chemicals Control Standards.
June 10, 2015	11	Revised in response to a review, etc. of the Chemicals Control Standards.
October 14, 2016	12	Revised in response to a review, etc. of the Chemicals Control Standards.
April 2, 2018	13	Revised in response to a review, etc. of the Chemicals Control Standards.
April 24, 2019	14	Revised in response to a review, etc. of the Chemicals Control Standards.
February 5, 2020	15	Revised in response to a review, etc. of the Chemicals Control Standards.
November 1, 2021	16	Revised in response to a review, etc. of the Chemicals Control Standards.
February 23, 2023	17	Table 1: Prohibited substances • Added No.33 Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings • Added No.34 Perfluorocarboxylic acids (C15-C21 PFCAs), its salts and C15-C21 PFCAs-related substances Table 2: Controlled substances • Added No.34 PFAS (Per- and polyfluoroalkyl substances and its salts)
December 25, 2024	18	Changes to the Listing Items of the Prohibited substances List and the Controlled substances List Table 1: Prohibited substances (Changes and Additions from Version 17) • Changed No. 39a: The threshold for mineral oil aromatic hydrocarbons (MOAH) containing 1 to 7 aromatic rings • Added No. 39b: Mineral oil aromatic hydrocarbons (MOAH) containing 3 to 7 aromatic rings • Added No. 39c: Mineral oil saturated hydrocarbons (MOSH) containing 16 to 35 carbon atoms Table 2: Controlled substances (Additions from Version 17) • Added No. 41: Medium-chain chlorinated paraffins (MCCP)

Issued by: Officer in Charge of Supervising Chemicals Contained in Products

Prepared by: Secretariat for Controlling Chemicals Contained in Products