IKO Green Procurement Standards

Version 17

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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.

Shin Kasahara

Officer in Charge of Supervising Chemicals Contained in Products
Executive Director
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 "Evaluation Sheet for Control of Chemicals" and "List of Commodities Used and Not Used."

We may request documentation of the following matters, depending on the type of commodity and other aspects:

(a) Submittal of a "Non-use Guarantee" that guarantees the non-use of prohibited substances

(b) Submittal of mill sheets or SDS (MSDS)

(c) Submittal of "analysis data" based on the contents of prohibited substances as measured by ICP-AES, etc.

(d) Submittal of electronic data (chemSHERPA) set forth by the Joint Article Management Promotion-consortium (JAMP) https://chemsherpa.net/english

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: IKO Prohibited substances

No.	Substances	Applications	Tolerance limit	Applicable laws and regulations (Representative example)
Ⅰ-1	Cadmium and its compounds	Batteries	10ppm ※1	EU / Battery Directive
		Other than the uses indicated above	100ppm ※1,※2	EU / RoHS2 Directive
Ⅰ-2	Lead and its compounds	Batteries	40ppm ※1,※2	EU / Battery Directive
		Other than the uses indicated above	1000ppm ※1	EU / RoHS2 Directive
Ⅰ-3	Mercury and its compounds	Batteries	5ppm ※1,※2	EU / Battery Directive
		All uses	1000ppm ※1,※2	EU / RoHS2 Directive
Ⅰ-4	Chromium (VI) compounds	All uses	1000ppm ※1,※2	EU / RoHS2 Directive
Ⅰ-5	Polybrominated biphenyls (PBBs)	All uses	1000ppm ※1	EU / RoHS2 Directive
Ⅰ-6	Polybrominated diphenyl ethers (PBDEs)	All uses	1000ppm ※1	EU / RoHS2 Directive
Ⅰ-7	Phthalate 4 kinds (DEHP, DBP, BBP, DIBP) ・Bis(2-ethylhexyl) phthalate (DEHP) ・Dibutyl phthalate (DBP) ・Benzyl butyl phthalate (BBP) ・Diisobutyl phthalate (DIBP)	All uses	1000ppm ※1	EU / RoHS2 Directive
Ⅰ-8	Tri-substituted organostannic compounds	All uses	1000ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-9	Dibutyltin (DBT) compounds	All uses	1000ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-10	Bis(tributyltin) oxide (TBTO)	All uses	1000ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-11	Asbestos	All uses	1000ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-12	Dimethyl fumarate (DMF)	All uses	0.1ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-13	Arsenic compounds	Use as wood preservative	Prohibited ※3	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-14	Polychlorinated terphenyls (PCTs)	All uses	50ppm	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-15	Polychlorinated biphenyls (PCBs) and specific substitutes	All uses	Intentional addition	Japan / Chemical Substance Control Law
Ⅰ-16	Polychlorinated naphthalene (1 or more chlorine atoms)	All uses	Intentional addition	Japan / Chemical Substance Control Law
Ⅰ-17	2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320)	All uses	Intentional addition	Japan / Chemical Substance Control Law
Ⅰ-18	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	All uses	Intentional addition	Japan / Chemical Substance Control Law
Ⅰ-19	Alkanes, C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	All uses	Intentional addition	PRTR Law
Ⅰ-20	Cobalt dichloride	Indicator in desiccant	Prohibited ※3	PRTR Law
Ⅰ-21	Beryllium oxide	All uses	1000ppm	Japan / Industrial Safety and Health Act
Ⅰ-22	Polyvinyl chloride (PVC) and its mixtures	All uses	Prohibited ※4	US / JS709
Ⅰ-23	Formaldehyde	Wooden products	Prohibited ※3	US / TSCA
Ⅰ-24	Perfluorooctane sulfonate (PFOS) and its salts	All uses	1000ppm	POPs Convention
Ⅰ-25a	Perfluorooctanoic acid (PFOA) and its salts	All uses	25ppb	EU / REACH Regulation
Ⅰ-25b	PFOA-related substances	All uses	1000ppb	EU / REACH Regulation
Ⅰ-26	Perfluorohexane-1-sulphonic acid (PFHxS) , its salts, and PFHxS-related substances	All uses	Intentional addition	POPs Convention
Ⅰ-27a	Perfluorocarboxylic acids (C9-C14 PFCAs) and its salts	All uses	25ppb	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-27b	C9-C14 PFCAs-related substances	All uses	260ppb	EU / REACH Regulation Annex ⅩⅦ
Ⅰ-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
Ⅰ-29	Halogen compounds and halogen resins	Applications for packaging and protection (cases, cushioning materials, etc.)	Intentional addition ※3	Japan / Eco Mark
Ⅰ-30	Ozone depleting substances	All uses	Intentional addition	Montreal Protocol
Ⅰ-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)	All uses	Intentional addition	EU / REACH Regulation SVHC
Ⅰ-32a	Decabromodiphenyl ether (DecaBDE) ※5	All uses	Intentional addition	US / TSCA
Ⅰ-32b	Phenol, Isopropylated, Phosphate (3:1) (PIP(3:1))	All uses	Intentional addition	US / TSCA
Ⅰ-32c	2,4,6-Tri-tert-butylphenol (2,4,6-TTBP) ※5	All uses	Intentional addition	US / TSCA
Ⅰ-32d	Pentachlorothiophenol (PCTP) ※5	All uses	Intentional addition	US / TSCA
Ⅰ-32e	Hexachlorobutadiene (HCBD) ※5	All uses	Intentional addition	US / TSCA
Ⅰ-33	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	Packaging materials/printed matter	1% by weight (10000ppm) in ink	French / Circular Economy Law
Ⅰ-34	Perfluorocarboxylic acids (C15-C21 PFCAs), its salts and C15-C21 PFCAs-related substances	All uses	1000ppb	Canada / Prohibition of Certain Toxic Substances Regulations

※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 must be 100 ppm or less in packaging and packaging materials. According to 94/62/EC Packaging and Packaging Waste Directive.

※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 TSCA PBT 5 Chemicals

Table 2: IKO Controlled substances

No.	Substances	Application examples
Ⅱ-1	Arsenic and its compounds (including Calcium arsenate, Triethyl arsenate, Diarsenic pentoxide and Diarsenic trioxide)	Paints, Flame retardants, Semiconductors, Wood antiseptics
Ⅱ-2	Beryllium and its compounds (other than Beryllium oxide)	Alloys and ceramic materials
Ⅱ-3	Brominated organic compounds and Brominated Flame Retardants (BFR) (other than PBBs, PBDEs,or HBCDD)	Flame retardants
Ⅱ-4	Nickel	Plating, Surface treatment, Stainless steel, Carbon steel
Ⅱ-5	Phthalates (other than DEHP, DBP, BBP, DIBP)	Plasticizers, Adhesives, Lubes
Ⅱ-6	Chlorinated organic compounds and Chlorinated flame retardants (CFR) (other than PCBs, PCNs, PCTs, or SCCP)	Flame retardants, Plasticizers
Ⅱ-7	Perchlorates	Coin cell batteries
Ⅱ-8	Aluminosilicate Refractory Ceramic Fibres	Heat insulators
Ⅱ-9	Zirconia Aluminosilicate Refractory Ceramic Fibres	Heat insulators
Ⅱ-10	Boric acid	Plate starch additives and flame retardants pH adjustors Flame retardants and antiseptics for wood, etc.
Ⅱ-11	Disodium tetraborate, anhydrous	Plate starch additives and flame retardants pH adjustors Flame retardants for wood, etc.
Ⅱ-12	Tetraboron disodium heptaoxide, hydrate (disodium tetraborate hydrate)	Plate starch additives and flame retardants pH adjustors Antiseptics for wood, etc.
Ⅱ-13	Diboron trioxide	Plate starch flame retardants, Glass and optical fibers,
Ⅱ-14	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	Plastic or paint dyes, Ink
Ⅱ-15	4-(1,1,3,3-Tetramethylbutyl)phenol (4-tert-Octylphenol)	Surface-active agents, Synthetic raw materials for lipophilic phenol resin, Unreacted substances
Ⅱ-16	Bis(2-metoxyethyl)ether	Electrolyte for batteries
Ⅱ-17	N,N-Dimethylacetamide (DMAC)	Solvants, Catalysts, Unreacted substances
Ⅱ-18	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	Polyurethane hardeners
Ⅱ-19	1,2-Dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	Electrolyte for lithium ion batteries, Ink for ink jets
Ⅱ-20	Trixylyl phoshate (TXP)	All uses
Ⅱ-21	Dibutyltin dichloride (DBTC)	Insulating material for wire coatings
Ⅱ-22	Triethylene glycol dimethyl ether	Electrolyte for lithium ion batteries, Ink for ink jets
Ⅱ-23	1,2-Diethoxyethane	Electrolyte for lithium ion batteries
Ⅱ-24	N,N-dimethylformamide	Electrolyte for electrolytic condenser for low-temperature environment
Ⅱ-25	4-Aminoazobenzene	Pigments
Ⅱ-26	Imidazolidine-2-thione (2-imidazoline-2-thiol)	Adhesives for two-side tape, Accelerator for imidazoline type
Ⅱ-27	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	Dyes, Ink
Ⅱ-28	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	Substantive dyes of paper and fabric, Vital stain, Vital stain for yeast, pH indicator
Ⅱ-29	4-Nonylphenol, branched and linear, ethoxylated	Paint, Lacquer, Varnish
Ⅱ-30	2- (2H-benzotriazol-2-yl) -4,6-di-tert-pentylphenol (UV-328)	Ultraviolet inhibitor, Ultraviolet absorber
Ⅱ-31	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	
Ⅱ-32	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)	
Ⅱ-33a	Methylene Chloride ※6	Adhesives, Encapsulants, Degreasing, Cleaning
Ⅱ-33b	1-Bromopropane ※6	Adhesives, Degreasing, Cleaning
Ⅱ-33c	Cyclic Aliphatic Bromide Cluster (HBCD) ※6	Flame retardants, Solder
Ⅱ-33d	Asbestos ※6	Car brakes, Gasket
Ⅱ-33e	Carbon Tetrachloride ※6	Refrigerant
Ⅱ-33f	1,4-dioxane ※6	Ink and adhesives, Solvent to dissolve encapsulants
Ⅱ-33g	N-Methylpyrrolidone (NMP) ※6	Solvents used to make petrochemicals
Ⅱ-33h	Perchloroethylene ※6	Adhesives for painting and crafts, Stainless steel abrasives
Ⅱ-33i	Pigment Violet 29 ※6	Ink, Paint
Ⅱ-33j	Trichloroethylene (TCE) ※6	Cleaning, Painting
Ⅱ-34	PFAS (Per- and polyfluoroalkyl substances and its salts)	All uses

※6 These are on TSCA issued risk assessment conduct “The First 10”.

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.
April21, 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.
August 1, 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)

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

Prepared by: Secretariat for Controlling Chemicals Contained in Products