

Environmental Management  
Standards for Chemical substances  
(First Edition)

SAKATA INX CORP.  
Environment & Quality Div.

March 12, 2019

## Environmental Management Standards for Chemical substances (First Edition)

### 1. PURPOSE

In order to minimize bad influences of hazardous chemical substances in all the business activities concerning SAKATA INX CORP. (hereinafter referred to as “our company”), to comply with laws and regulations related to chemical substance, and to reduce human and environmental loading, we define our prohibited chemical substances for all the materials of our business partners, we will eliminate the influx of dangerous and harmful chemical substances to all our business activities,.

### 2. SCOPE

Targets are all materials of suppliers related to our business activities, that is, all products and consignment products of suppliers supplied to us and our customers, and all materials of suppliers used by us and our customers (Including subsidiary materials, packaging materials, etc.).

### 3. TERMS AND DEFINITIONS

Contained : A condition in which a substance ultimately remains due to addition, contamination, etc., whether intentional or not.

Intentional use : It is intentionally left to provide a specific function.

Impurity : Substances contained in natural materials that cannot be removed by the current available technology, or by-products generated during the synthesis process, or substances that cannot be removed during the process. They are substances that have not been intentionally added.

Threshold : Maximum allowable value when contained as an impurity.

### 4. MANAGEMENT STANDARDS

Prohibited substances are substances specified by laws and regulations described in the following (1) to (7). Suppliers must not intentionally use these prohibited substances. If they are contained as impurities, they must not be contained exceeding the threshold. If no threshold is set, generation and contamination during the process are prohibited.

#### (1) Chemical Substances Control Law/Class 1 Specified Chemical Substances

However, based on “Handling of chemical substances containing By-product Class 1 Specified Chemical Substances (Notice)” issued on March 16, 2018, substances approved by the three ministries as not to be handled as Class 1 Specified Chemical Substances are excluded. Even in this case, please report the content if you know that they are contained.

#### (2) Chemical Substances Control Law/Class 2 Specified Chemical Substances

However, based on the “Notification procedure for actual and planned quantity of Class 2 Specified Chemical Substances and products containing Class 2 Specified Chemical Substances” issued in February 2018, it is acceptable if the content of Class 2 Specified Chemical Substances as impurities is less than 1% by weight. Even in this case, please report the content if you know that they are contained.

#### (3) Industrial Safety and Health Law, Article 55 Harmful Substances Prohibited for Manufacture, Enforcement Order of the Industrial Safety and Health Law, Article 16

#### (4) Industrial Safety and Health Law, Article 56 Harmful Substances Subject to Obtaining Permission for Manufacturing, Enforcement Order of the Industrial Safety and Health Law, Article 17 and Attached table 3-1

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- (5) Poisonous and Deleterious Substances Control Law, Specific toxic substances, Attached table 3
- (6) RoHS2 10 substances(Commission Delegated Directive (EU) 2015/863)
- (7) Our designated substances

If the same substance is regulated by multiple laws, the lower threshold is adopted as the reference. Regarding the above prohibited substances and thresholds, the current information is shown in Section 8, but suppliers must follow the latest information. In addition, “Synonym [Substance (example)]” and “CAS No.” described in the substance list in Section 8 are examples, and to be exact, “Substance [Substance group]” has priority.

5. REQUIREMENTS

Please understand the above contents and manage them thoroughly.  
We will audit (visit or document audit) as necessary, so please cooperate.

6. Operation at the time of revision of laws and regulations

When the laws and regulations are revised, supplier must follow the revised contents.

7. CONTACT INFORMATION

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8. Prohibited Substances

(1) Chemical Substances Control Law/Class 1 Specified Chemical Substances

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.	
Polychlorinated biphenyls	PCBs	1336-36-3	
Polychlorinated naphthalenes (limited to those containing two or more chlorine atoms)	Naphthalene, 1,2,3,4,5,6,7,8-octachloro-	2234-13-1	
	Naphthalene, tetrachloro-	1335-88-2	
	Naphthalene, trichloro-	1321-65-9	
	Naphthalene, hexachloro-	1335-87-1	
	Naphthalene, heptachloro-	32241-08-0	
	Naphthalene, pentachloro-	1321-64-8	
	Dichloronaphthalene		2050-69-3
			2198-75-6
			1825-31-6
			1825-30-5
			2050-72-8
		2050-73-9	
	2050-74-0		
	2050-75-1		

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Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Polychlorinated naphthalenes (limited to those containing two or more chlorine atoms)	Dichloronaphthalene	2065-70-5
		2198-77-8
		28699-88-9
Hexachlorobenzene	HCB	118-74-1
1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene	Aldrin	309-00-2
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-dimethanonaphthalene	Dieldrin	60-57-1
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	Endrin	72-20-8
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	DDT	50-29-3
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	Chlordane	57-74-9
	Heptachlor	76-44-8
	rel-(1R,2S,3R,4S,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-71-9
	rel-(1R,2S,3R,4R,6S,7S)-1,3,4,7,8,9,10,10-Octachlorotricyclo[5.2.1.0(2,6)]dec-8-ene	5103-74-2
	trans-Nonachlor	39765-80-5
Bis (tributyltin)=oxide	Distannoxane, 1,1,1,3,3,3-hexabutyl-	56-35-9
N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-Dixylyl-p-phenylenediamine		620-91-7
2,4,6-Tri-tert-butylphenol		732-26-3
Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptane	Toxaphene	8001-35-2
Dodecachloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decane	Mirex	2385-85-5
2,2,2-Trichloro-1,1-bis (4-Chlorophenyl) ethanol	Kelthane, Dicofol	115-32-2
Hexachlorobuta-1, 3-diene		87-68-3
2-(2H-1,2,3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol		3846-71-7

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Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Perfluoro(octane-1-sulfonic acid) (Synonym: PFOS) or its salts	Perfluoro(octane-1-sulfonic acid) (Synonym: PFOS)	1763-23-1
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, ammonium salt (1:1)	29081-56-9
	Perfluorooctane sulfonate lithium salt	29457-72-5
Perfluoro(octane-1-sulfonyl) fluoride	PFOSF	307-35-7
Pentachlorobenzene		608-93-5
r-1,c-2,t-3,c-4,t-5,t-6-Hexachlorocyclohexane	$\alpha$ -Hexachlorocyclohexane	319-84-6
r-1,t-2,c-3,t-4,c-5,t-6-Hexachlorocyclohexane	$\beta$ -Hexachlorocyclohexane	319-85-7
r-1,c-2,t-3,c-4,c-5,t-6-Hexachlorocyclohexane	$\gamma$ -Hexachlorocyclohexane, Lindane	58-89-9
Decachloropentacyclo[5.3.0.0(2,6).0(3,9).0(4,8)]decane-5-one	Chlordecone, Kepone	143-50-0
Hexabromobiphenyl		36355-01-8
Tetrabromo(phenoxybenzene)	Tetrabromodiphenyl ether	40088-47-9
Pentabromo(phenoxybenzene)	Pentabromodiphenyl ether	32534-81-9
Hexabromo(phenoxybenzene)	Hexabromodiphenyl ether	36483-60-0
Heptabromo(phenoxybenzene)	Heptabromodiphenyl ether	68928-80-3
Hexachloro-hexahydro- methano-benzodioxathiepine oxide	Endosulfan, Benzoepin	115-29-7
		959-98-8
		33213-65-9
Hexabromocyclododecane	HBCCD	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		

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Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Pentachlorophenol and its salts and esters	2,3,4,5,6-Pentachlorophenol	87-86-5
	Sodium Pentachlorophenate	131-52-2
	Sodium pentachlorophenate monohydrate	27735-64-4
	Pentachlorophenyl laurate	3772-94-9
Alkanes, C10-13, chloro		85535-84-8
Benzene, 1,1'-oxybis[2,3,4,5,6-pentabromo-	Decabromodiphenyl oxide	1163-19-5

## (2) Chemical Substances Control Law/Class 2 Specified Chemical Substances

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Trichloroethylene		79-01-6
Tetrachloroethylene		127-18-4
Carbon tetrachloride		56-23-5
Triphenyltin N,N-dimethyldithiocarbamate		1803-12-9
Triphenyltin fluoride	Stannane, fluorotriphenyl-	379-52-2
Triphenyltin acetate	Stannane, acetoxytriphenyl-	900-95-8
Triphenyltin chloride		639-58-7
Triphenyltin hydroxide		76-87-9
Triphenyltin salt of fatty acid (only those containing 9,10 or 11 carbon atoms in the fatty acid)	Triphenylstannyl 2,2,4,4-tetramethylpentanoate	18380-71-7
	Triphenylstannyl 2-isopropyl-2,3-dimethylbutanoate	18380-72-8
	Triphenylstannyl decanoate	47672-31-1
	Triphenylstannyl undecanoate	94850-90-5
Triphenyltin chloroacetate	(Chloroacetoxy)triphenylstannane	7094-94-2
Tributyltin methacrylate		2155-70-6
Bis(tributyltin) fumarate	Bis(tributan-1-ylstannyl) fumarate	6454-35-9
	Bis(tributan-1-ylstannyl) but-2-enedioate	24291-45-0
Tributyltin fluoride	Stannane, tributylfluoro-	1983-10-4
	Stannane, fluorotris(2-methylpropyl)-	7304-48-5
Bis(tributyltin) 2,3-dibromosuccinate		31732-71-5
Tributyltin acetate		56-36-0
Tributyltin laurate		3090-36-6
Bis(tributyltin) phthalate		4782-29-0
Copolymer of alkyl acrylate, methyl methacrylate and tributyltin methacrylate (only those containing 8 carbon atoms in alkyl group of alkyl acrylate)	Poly[(methyl methacrylate)-co-(octan-1-yl acrylate)-co-(tributan-1-ylstannyl methacrylate)]	67772-01-4
Tributyltin sulfamate		6517-25-5
Bis(tributyltin) maleate		14275-57-1
Tributyltin chloride		1461-22-9

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Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Mixture of tributyltin cyclopentanecarboxylate and its analogous compounds	Tributyltin naphthenate	85409-17-2
Mixture of tributyltin 1,2,3,4,4a,5,6,10,10a-decahydro-7-isopropyl-1,4a-dimethyl-1-phenanthrenecarboxylate and its analogous compounds	Tributyltin rosin salt	26239-64-5

(3) Industrial Safety and Health Law, Article 55 Harmful Substances Prohibited for Manufacture, Enforcement Order of the Industrial Safety and Health Law, Article 16

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.	Threshold
Yellow phosphorus matches	Tetraphosphorus	12185-10-3	—
Benzidine and its salts	Benzidine	92-87-5	1%
	[1,1'-Biphenyl]-4,4'-diamine, dihydrochloride	531-85-1	1%
	[[1,1'-biphenyl]-4,4'-diyl]diammonium sulphate	531-86-2	1%
4-Aminodiphenyl and its salts	4-Aminodiphenyl	92-67-1	1%
Asbestos	Asbestos, amosite	12172-73-5	0.1%
	Asbestos, crocidolite	12001-28-4	0.1%
4-Nitrobiphenyl and its salts	1,1'-Biphenyl, 4-nitro-	92-93-3	1%
Bis (chloromethyl) ether		542-88-1	1%
$\beta$ -Naphthylamine and its salts	2-Naphthylamine	91-59-8	1%
Gum containing benzene, in which the volume of contained benzene exceeds 5 % of the solvent (including diluents) of the said gum		—	—

(4) Industrial Safety and Health Law, Article 56 Harmful Substances Subject to Obtaining Permission for Manufacturing, Enforcement Order of the Industrial Safety and Health Law, Article 17 and Attached table 3-1

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.	Threshold
Dichlorobenzidine and its salts	Dichlorobenzidine	1331-47-1	1%
	2,2'-dichloro[1,1'-biphenyl]-4,4'-diamine	84-68-4	1%
	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	91-94-1	1%
	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-, hydrochloride (1:2)	612-83-9	1%

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Substance [Substance group]	Synonym [Substance(example) ]	CAS No.	Threshold
$\alpha$ -Naphthylamine and its salts	1-Naphthalenamine	134-32-7	1%
Polychlorinated biphenyls	PCBs	1336-36-3	1%
o-Toluidine and its salts	3,3'-Dimethylbenzidine	119-93-7	1%
Dianisidine and its salts	3,3'-Dimethoxybenzidine	119-90-4	1%
Beryllium and its compounds	Beryllium chloride (BeCl <sub>2</sub> )	7787-47-5	1%
	Carbonic acid, beryllium salt (1:1)	13106-47-3	1%
	Beryllium zinc silicate	39413-47-3	1%
	Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), beryllium salt (1:2)	15191-85-2	1%
	Beryllium zinc silicate	25638-88-4	1%
	Beryl (Al <sub>2</sub> Be <sub>3</sub> (SiO <sub>3</sub> ) <sub>6</sub> )	1302-52-9	1%
	Beryllium oxide (BeO)	1304-56-9	1%
	Nitric acid, beryllium salt (2:1)	13597-99-4	1%
	Beryllium hydroxide (Be(OH) <sub>2</sub> )	13327-32-7	1%
	Beryllium fluoride (BeF <sub>2</sub> )	7787-49-7	1%
Beryllium and its compounds	Beryllium	7440-41-7	1%
	Beryllium di(acetate)	543-81-7	1%
	Beryllium oxyfluoride	63990-88-5	1%
	Sulfuric acid, beryllium salt (1:1)	13510-49-1	1%
	Beryllium sulfate tetrahydrate	7787-56-6	1%
Beryllium hydrogen phosphate	13598-15-7	1%	
Benzotrichloride		98-07-7	0.5%

## (5) Poisonous and Deleterious Substances Control Law, Specific toxic substances, Attached table 3

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Octamethyl- pyrophosphoramidate	Schradan	152-16-9
Tetraalkyl lead	Plumbane, tetramethyl-	75-74-1
	Plumbane, tetraethyl-	78-00-2
Diethyl-paranitrophenyl- thiophosphate	Parathion	56-38-2
O, O-dimethyl-O-ethylmercaptoethyl thiophosphate	Demeton-methyl	8022-00-2
Dimethyl-(diethylamido-1- chlorocrotonyl)- phosphate	Phosphamidon	13171-21-6
Dimethylparanitrophenyl thiophosphate	Parathion, methyl-	298-00-0
Tetraethylpyrophosphate	TEPP	107-49-3
Monofluoroacetate	Fluoroacetic acid	144-49-0
Fluoroacetamide	Monofluoroacetamide	640-19-7



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(6) RoHS2 10 substances(Commission Delegated Directive (EU) 2015/863)

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.	Threshold
Lead		—	0.1%
Mercury		—	0.1%
Cadmium		—	0.01%
Hexavalent chromium		—	0.1%
Polybrominated biphenyls (PBB)	Hexabromobiphenyl	36355-01-8	0.1%
	Octabromobiphenyl	27858-07-7	0.1%
	Decabromobiphenyl	13654-09-6	0.1%
Polybrominated diphenyl ethers (PBDE)	Tetrabromodiphenyl ether	40088-47-9	0.1%
	Pentabromodiphenyl ether	32534-81-9	0.1%
	Hexabromodiphenyl ether	36483-60-0	0.1%
	Heptabromodiphenyl ether	68928-80-3	0.1%
	Decabromodiphenyl_ether	1163-19-5	0.1%
Bis(2-ethylhexyl) phthalate (DEHP)		117-81-7	0.1%
Butyl benzyl phthalate (BBP)		85-68-7	0.1%
Dibutyl phthalate (DBP)		84-74-2	0.1%
Diisobutyl phthalate (DIBP)		84-69-5	0.1%

(7) Our designated substances

Substance [Substance group]	Synonym [Substance(example) ]	CAS No.
Dichloromethane	Methylene chloride	75-09-2
1,2-Dichloroethane	Ethylene dichloride	107-06-2
Ethene, 1,1-dichloro-	Vinylidene chloride	75-35-4
Cis-dichloroethylene	Ethene, 1,2-dichloro-, (Z)-	156-59-2
1,1,1-Trichloroethane	Methyltrichloromethane	71-55-6
1,1,2-Trichloroethane	Vinyl trichloride	79-00-5
1,3-Dichloropropene		542-75-6
		10061-02-6
		10061-01-5

9. REVISION HISTORY

Date	Revised content
March 12, 2019	First edition issued