ThreeBond

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: JIS Z 7252:2019; JIS Z 7253:2019

> Issuing Date 16-Sep-2021 Revision date 08-Nov-2023 Revision Number 3

1. Identification

Product Name ThreeBond 1401C

Details of the supplier of the safety data sheet

Supplier

ThreeBond Fine Chemical Co., Ltd.

1-1 Oyama-cho, Midori-ku, Sagamihara-shi, Kanagawa 252-0146 Japan

Emergency telephone number

+81-42-703-7126 (Inquiries regarding SDS content)

+81-42-670-5333 (Inquiries regarding the product or SDS claim)

Recommended use of the chemical and restrictions on use

Recommended use Adhesive, Sealant

Restrictions on use Please be sure to confirm in advance the appropriateness and safety of using the product for the relevant application If the product is to be used for applications other than those recommended, please seek professional judgment This product is for industrial use and its use for household and medical implants is prohibited.

2. Hazard(s) identification

GHS Classification

Flammable liquids	Category 2	
Acute toxicity - Oral	Category 4	
Acute toxicity - Dermal	Category 4	
Acute toxicity - Inhalation (Gases)	Classification not applicable	
Acute toxicity - Inhalation (Vapors)	Classification not possible	
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible	
Skin corrosion/irritation	Classification not possible	
Serious eye damage/eye irritation	Category 2A	
Respiratory sensitization	Classification not possible	
Skin sensitization	Classification not possible	
Germ cell mutagenicity	Classification not possible	
Carcinogenicity	Category 1B	
Reproductive toxicity	Category 1A	
Effects on or via lactation	Classification not possible	
Specific target organ toxicity (single exposure)	Category 1	
Category 1 Central nervous system, visual organs, systemic toxicity.	•	
Category 3 Target organ effects: Respiratory irritation, Narcotic effects.		
Specific target organ toxicity (repeated exposure)	Category 1	
Category 1 Central nervous system, visual organs.		
Category 2 kidneys.		
Aspiration hazard	Classification not possible	
Acute aquatic toxicity	Classification not possible	

Chronic aquatic toxicity	Not classified
Ozone	Classification not possible

GHS label elements



Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

Causes damage to the following organs: Central nervous system, visual organs, systemic toxicity.

Causes damage to the following organs through prolonged or repeated exposure: Central nervous system, visual organs.

May cause damage to the following organs through prolonged or repeated exposure: kidneys.

Precautionary statements

Prevention

- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Ground and bond container and receiving equipment
- Use non-sparking tools
- · Take action to prevent static discharges
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- Keep cool
- Obtain special instructions or technical data sheet before use
- · Use explosion-proof electrical/ ventilating/ lighting/ equipment

Response

- IF exposed or concerned: Get medical advice/attention
- IF exposed or concerned: Call a POISON CENTER or doctor
- Specific treatment (see section 4 on this SDS)

Eves

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- Rinse mouth

Skin

- IF ON SKIN: Wash with plenty of water and soap
- · Call a POISON CENTER or doctor if you feel unwell
- · Take off contaminated clothing and wash it before reuse
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

Inhalation

Revision date 08-Nov-2023

- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- · Call a POISON CENTER or doctor if you feel unwell

Fire

· In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

- Store locked up
- · Store in a well-ventilated place. Keep container tightly closed

Disposal

· Dispose of contents/container to an approved waste disposal plant

Other hazards

Causes mild skin irritation.

3. Composition/information on ingredients

Pure substance/mixture

Mixture

Chemical name	CAS No.	Weight-%	ENCS Number	ISHL No.
Methyl alcohol	67-56-1	70	(2)-201	(2)-201
Modified vinyl acetate resin	-	25-<35		
Toluene	108-88-3	1.4	(3)-2,(3)-60	2-(8)-869
Vinyl acetate	108-05-4	0.1-<1	(2)-728	(2)-728

Pollutant Release and Transfer Register (PRTR)

The amount of the relevant substance in certain cases referenced in article 4(i)(a) or 4(i)(b) of the Enforcement Order of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Act) is calculated based on the conversion factors shown (with safety factor = 1 in cases where conversion factor information is not available)

Chemical name	Cabinet order name	Metal, CN, F, etc.	Conversion coefficient	Category	Ordinance number	Control number
Toluene	Toluene			Class I designated chemical substance	1-347	300

Industrial Safety and Health Law

ISHL Notifiable Substances

Article 57-2 of the ISHL, Article 18-2, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement Harmful substances requiring risk assessment

Article 57-3 of the ISHL

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
Methyl alcohol	Methanol	67-56-1	
Toluene	Toluene	108-88-3	
Vinyl acetate	Vinyl acetate	108-05-4	

Harmful Substances Whose Names Are to be Indicated on the Label

Article 57 of ISHL, Article 18, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

	Titlolo of official, fittiolo to, item 1, item 2, table o and item 6, table o of official Emotionism					
Chemical name Ministe		Ministerial Ordinance Name	CAS No.	Implementation date		
Methyl alcohol Methanol		67-56-1				
	Toluene	Toluene	108-88-3			

Poisonous and Deleterious Substances Control Law

Not applicable

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	CAS No.	Chemical Substances Control Law
Toluene	108-88-3	Priority assessment chemical substance

4. First-aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

In case of inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

In case of skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. If symptoms persist, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation develops and persists.

In case of ingestionDo NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms/effects,

acute and delayed

May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may

cause redness and irritation.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations. In the event of fire, cool container with water spray.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Flammable properties

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may

explode when heated. Many liquids are lighter than water.

Special Extinguishing Media Cool container with water spray.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Other information CAUTION: Use of water spray when fighting fire may be inefficient.

6. Accidental release measures

Personal precautions, protective equipment and emergency

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate

procedures ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources

(no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Handling

Advice on safe handling Take equipment measures listed in Section 8. Wear protection gear. Use personal

protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Remove contaminated clothing and shoes.

Hygiene Measures Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Storage

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

Store locked up.

8. Exposure controls/personal protection

Exposure guidelines

Chemical name	Japan Society of Occupational Health	Evaluation	ACGIH TLV	Japan ISHA Workplace exposure limit - 8 hours	Japan ISHA Workplace exposure limit - Short time
		Standards - Administrative			

		Control Levels			
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ S*	200 ppm	STEL: 250 ppm TWA: 200 ppm S*	-	-
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m ³ S*	20 ppm	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm	-	-
Vinyl acetate 108-05-4	-	-	STEL: 15 ppm TWA: 10 ppm	10 ppm	15 ppm

Biological monitoring indicator

Chemical name	Japan Society of Occupational Health	ACGIH
Methyl alcohol	20 mg/L - urine (Methanol) - end of shift	15 mg/L - urine (Methanol) - end of shift
67-56-1		-
Toluene	0.6 mg/L - blood (Toluene) - within 2 h	0.02 mg/L - blood (Toluene) - prior to
	prior to end of shift at end of work week	
		0.03 mg/L - urine (Toluene) - end of shift
	prior to end of shift at end of work week	0.3 mg/g creatinine - urine (o-Cresol with
		hydrolysis) - end of shift

Engineering controls Showers

> Eyewash stations Ventilation systems.

Environmental exposure controls

Install local ventilation or seal source of substances. Install safety shower, hand wash, and

eye wash station. Clearly indicate the location.

Personal protective equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If workers are exposed to gases or vapors, consider wearing respiratory protective equipment (e.g., gas masks). When handling highly concentrated chemicals, consider wearing an air-supplied respirator. When selecting a respirator, the following points should be considered.

-Do not use masks in areas where the oxygen concentration is less than 18%.

-When using a gas mask in an environment where workers are exposed to dust, use an

absorbent can with dustproof function.

-Select a gas mask with performance and construction suitable for the work in accordance with the Japanese Industrial Standard (JIS T8152), and refer to the data provided in the instruction manual.

Hand protection

Wear suitable gloves. Impervious gloves. Consider wearing impervious protective gloves. When selecting protective gloves, the following points should be considered.

-Referring to the impermeability class, etc. listed in the instruction manual, set a use time

that allows for the work, and use protective gloves within that time range.

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Transparent red Color

Odor Alcohol odor

Property Values Remarks • Method

Melting point / freezing point no data available Initial boiling point and boiling range

Flammability no data available

Upper/lower flammability or explosive limits

Upper flammability or explosive no data available

limits

Lower flammability or explosive no data available

limits

Flash point 9 °C

Evaporation rate no data available
Autoignition temperature no data available
Decomposition temperature no data available
pH no data available

Viscosity

Kinematic viscosityno data availableDynamic viscosity380 mPa·sWater solubilityPartially miscibleSolubility(ies)no data availablePartition Coefficientno data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 0.88

Liquid Density no data available Bulk density no data available Relative vapor density no data available

Particle characteristics

Particle Size no data available
Particle Size Distribution no data available

Other information

Explosive properties no data available **Oxidizing properties** No data available

10. Stability and reactivity

Chemical stability Stable under normal conditions

Possibility of hazardous reactions React with strong oxidizing agent. Could cause fire.

Conditions to avoid Heat.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products May generate harmful gas by incineration.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 515.00 mg/kg

ATEmix (dermal) 1,442.00 mg/kg ATEmix (inhalation-vapor) 598.80 mg/l ATEmix (inhalation-dust/mist) 680.40 mg/l

Unknown acute toxicity

28.68952 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 28.68952 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl alcohol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h
Vinyl acetate	= 2900 mg/kg (Rat)	= 2335 mg/kg (Rabbit)	= 3680 ppm (Rat) 4 h

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

Product Information

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation. May be absorbed through the skin in harmful amounts. Harmful in contact with skin. (based on components). Causes mild skin

irritation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Japan	IARC
Toluene 108-88-3	-	Group 3
Vinyl acetate 108-05-4	1B	Group 2B

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Classification based on data available for ingredients. May damage fertility or the unborn

child.

Target organ effects Central nervous system. Eyes. Gastrointestinal tract. kidney. liver. Respiratory system. Skin.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the following organs: Central nervous system, visual organs, systemic toxicity.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Causes damage to the following organs through prolonged or repeated exposure: Central nervous system, visual organs. May cause damage to the following organs through prolonged or repeated exposure: kidneys.

12. Ecological information

Ecotoxicity

Classification not possible. Based on available data, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Methyl alcohol	-	LC50: =28200mg/L (96h,	-
		Pimephales promelas)	
		LC50: >100mg/L (96h,	
		Pimephales promelas)	
		LC50: 19500 - 20700mg/L	
		(96h, Oncorhynchus mykiss)	
		LC50: 18 - 20mL/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 13500 - 17600mg/L	
		(96h, Lepomis macrochirus)	
Toluene	EC50: >433mg/L (96h,	LC50: 15.22 - 19.05mg/L (96h,	EC50: 5.46 - 9.83mg/L (48h,
	Pseudokirchneriella	Pimephales promelas)	Daphnia magna)
	subcapitata)	LC50: =12.6mg/L (96h,	EC50: =11.5mg/L (48h,
	EC50: =12.5mg/L (72h,	Pimephales promelas)	Daphnia magna)
	Pseudokirchneriella	LC50: 5.89 - 7.81mg/L (96h,	
	subcapitata)	Oncorhynchus mykiss) LC50: 14.1 - 17.16mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =5.8mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 11.0 - 15.0mg/L (96h,	
		Lepomis macrochirus)	
		LC50: =54mg/L (96h, Oryzias	

	latipes) LC50: =28.2mg/L (96h, Poecilia reticulata) LC50: 50.87 - 70.34mg/L (96h, Poecilia reticulata)	
Vinyl acetate	LC50: =14mg/L (96h, Pimephales promelas) LC50: 15.04 - 21.54mg/L (96h, Lepomis macrochirus) LC50: 26.1 - 36.63mg/L (96h, Poecilia reticulata)	-

Percentage for unknown hazards0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Methyl alcohol	-0.77
67-56-1	
Toluene	2.73
108-88-3	
Vinyl acetate	0.73
108-05-4	

Mobility in soil No information available.

Hazardous to the ozone layer Classification not possible. Based on available data, the classification criteria are not met.

Other adverse effects No information available.

13. Disposal considerations

Waste from residues/unused

products

Dispose of in accordance with national, state and local regulations. Consult industrial waste managent companies for waste. Do not release this product to natural environment nor

reclaim.

Contaminated packaging Dispose containers as same as residual of this product.

14. Transport information

IMDG

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, II, (9°C c.c.)

Transport hazard class(es)

Packing group

Marine pollutant

EmS-No.

3

NP

F-E, S-D

ADR

UN number or ID number UN1133

UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, II, (D/E)

Transport hazard class(es) 3
Packing group II
ERG Code 3L
Special Provisions 640C

IATA

UN number or ID number UN1133
UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, II

Transport hazard class(es) 3
Packing group II
Special Provisions A3
ERG Code 3L

<u>Japan</u>

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, II

Transport hazard class(es) 3
Packing group

15. Regulatory information

National regulations

Pollutant Release and Transfer Register (PRTR)

Applies See section 3 for more information

Industrial Safety and Health Law

Prevention of hazards due to specified chemical substances

Not applicable

Harmful Substances Requiring Workers to Subject to Medical Exams

Medical Examination - Industrial Safety and Health Law article 66, enforcement order article 22, and the Ordinance on Prevention of Hazards Due to Specified Chemical Substances, Table 5

Ordinance on Prevention of Organic Solvent Poisoning

Organic solvents class 2 - Industrial Safety and Health Law enforcement order Table 6-2 (related to article 6, article 21, article 22, and the Ordinance on Prevention of Organic Solvent Poisoning)

ISHL Notifiable Substances

Article 57-2 of the ISHL, Article 18-2, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

Harmful substances requiring risk assessment

Article 57-3 of the ISHL

Harmful Substances Whose Names Are to be Indicated on the Label

Article 57 of ISHL, Article 18, Item 1, Item 2, Table 9 and Item 3, Table 3 of Order for Enforcement

Strong mutagenic chemical substances

New chemical substances with mutagenicity recognized (Article 57-3, Paragraph 1 of the Industrial Safety and Health Law).

Carcinogenic substances

Chemical substances specified by the Minister of Health, Labor and Welfare based on the provisions of Article 577-2,

Paragraph 3 of the Ordinance on Industrial Safety and Health

Chemical name	CAS No.
Vinyl acetate	108-05-4

Poisonous and Deleterious Substances Control Law

Not applicable

Explosives Control Law

No.

High Pressure Gas Safety Act

Not applicable

Fire Service Law:

Flammable liquids, group 4, 1st class petroleums, water-insoluble, hazard rank II, 200 liters

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	CAS No.	Chemical Substances Control Law
Toluene	108-88-3	Priority assessment chemical substance

Ship (Marine Transportation) Safety Act

See section 14 for more information

Civil Aeronautics Act

See section 14 for more information

Act on Port Regulation Law

See section 14 for more information

16. Other information

Issuing Date16-Sep-2021Revision date08-Nov-2023

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) Ceiling Maximum limit value

Skin designation + Sensitizers

Key literature references and sources for data used to compile the SDS

JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)

Disclaimer

This SDS complies with the requirements of JIS Z 7252:2019 and JIS Z 7253:2019 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.