# **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 15-Nov-2023 Revision Number 3

## 1. Identification

Product Name ThreeBond 1501

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

Ozone Classification not possible

**GHS label elements** 



## Signal word

Danger

## **Hazard statements**

- H225 Highly flammable liquid and vapor
- H332 Harmful if inhaled
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H360 May damage fertility or the unborn child
- H370 Causes damage to organs
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H372 Causes damage to organs through prolonged or repeated exposure
- H401 Toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H304 May be fatal if swallowed and enters airways

Causes damage to the following organs: Central nervous system.

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

#### **Precautionary statements**

#### Prevention

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- · Use only outdoors or in a well-ventilated area
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- · 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
- Use explosion-proof electrical/ ventilating / lighting/ .? / equipment
- Keep cool

#### Response

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

#### 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: Immediately call a POISON CENTER or doctor
- · Do NOT induce vomiting

#### Skin

- IF ON SKIN: Wash with plenty of water and soap
- If skin irritation occurs: Get medical advice/attention
- · 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** 

- 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

No information available.

## 3. Composition/information on ingredients

#### Pure substance/mixture

Mixture

Chemical name	CAS No.	Weight-%	ENCS Number	ISHL No.
Toluene	108-88-3	61	(3)-2,(3)-60	2-(8)-869
Hexane	110-54-3	16	(2)-6	(2)-6
Rosin	8050-09-7	0.1-<1		
Chloroprene Synthetic rubber, Synthetic resin, Inorganic filler	-	20-<30		

#### 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,	Conversion	Category	Ordinance	Control
		etc.	coefficient		number	number
Toluene	Toluene			Class I designated	1-347	300
				chemical substance		
Hexane	Hexane			Class I designated	1-436	392
				chemical substance		

## **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
Toluene	Toluene	108-88-3	
Hexane	Hexane	110-54-3	
Rosin	Rosin	8050-09-7	

## 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

<u></u>				
Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date	
Toluene	Toluene	108-88-3		
Hexane	Hexane	110-54-3		

#### **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
Hexane	110-54-3	Priority assessment chemical substance

## 4. First-aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**In case of inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention. Aspiration into lungs can produce severe lung damage. If breathing is difficult, (trained

personnel should) give oxygen. Delayed pulmonary edema may occur.

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. May cause an allergic skin reaction. 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 ingestion May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and

drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head

below hips to prevent aspiration.

Most important symptoms/effects,

acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause

symptoms like headache, dizziness, tiredness, nausea and vomiting.

**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. Avoid direct contact with skin. Use barrier to give

mouth-to-mouth resuscitation. Avoid breathing vapors or mists.

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically. Because of the

danger of aspiration, emesis or gastric lavage should not be employed unless the risk is

justified by the presence of additional toxic substances.

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** Risk of ignition. Keep product and empty container away from heat and sources of ignition.

**chemical** Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations. Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact. In the event of fire, cool container with

water spray.

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 procedures

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 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. Avoid breathing vapors or mists.

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. 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

reuse. 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.

Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**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. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. Exposure controls/personal protection

## **Exposure guidelines**

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV	Japan ISHA Workplace exposure limit - 8 hours	Japan ISHA Workplace exposure limit - Short time
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> S*	20 ppm	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm	-	-
Hexane 110-54-3	TWA: 40 ppm TWA: 140 mg/m <sup>3</sup> S*	40 ppm	TWA: 50 ppm S*	-	-
Rosin 8050-09-7	-	-	dermal sensitizer;respiratory sensitizer TWA: 0.001 mg/m³ total resin acids inhalable particulate matter		-

## **Biological monitoring indicator**

Chemical name	Japan Society of Occupational Health	ACGIH
Toluene	0.6 mg/L - blood (Toluene) - within 2 h	0.02 mg/L - blood (Toluene) - prior to
108-88-3	prior to end of shift at end of work week	last shift of workweek
		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
Hexane	3 mg/g creatine - urine	0.5 mg/L - urine (2,5-Hexanedione
110-54-3	(2,5-Hexanedione) - end of shift at end	without hydrolysis) - end of shift
	of work week	
	0.3 mg/g creatine - urine	
	(2,5-Hexanedione) - end of shift at end	
	of work week	

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.

**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
Color brown
Odor Solvent 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 -20 °C

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

Viscosity

Kinematic viscosity no data available

Dynamic viscosity3.3 Pa·sWater solubilitySlightly solubleSolubility(ies)no data availablePartition Coefficientno data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 0.94

Liquid Densityno data availableBulk densityno data availableRelative vapor densityno 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 heating.

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 (dermal) 15,425.50 mg/kg ATEmix (inhalation-vapor) 14.40 mg/l ATEmix (inhalation-dust/mist) 12.90 mg/l

#### Unknown acute toxicity

21.47099 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Hexane	= 25 g/kg (Rat)	= 3000 mg/kg ( Rabbit )	= 48000 ppm (Rat) 4 h
Rosin	= 7600 mg/kg (Rat)	> 2500 mg/kg ( Rabbit )	= 1.5 mg/L (Rat) 4 h

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

**Product Information** 

**Ingestion** Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause additional affects as

listed under "Inhalation".

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitization in

susceptible persons. (based on components). Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation

of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation.

**Skin contact** Repeated exposure may cause skin dryness or cracking. Specific test data for the

substance or mixture is not available. Causes skin irritation. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause sensitization by skin contact.

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

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

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

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

**Respiratory or skin sensitization** No data available. May cause an allergic skin reaction.

#### Carcinogenicity

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

Chemical name	Japan	IARC
Toluene	-	Group 3
108-88-3		·

## Legend

## IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

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. May cause harm to breast-fed children.

Target organ effects Central nervous system. Eyes. kidney. liver. Peripheral Nervous System (PNS). 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. May cause respiratory irritation. May cause drowsiness or

dizziness.

Causes damage to the following organs: Central nervous system.

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, kidneys, nervous system.

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 12. Ecological information

Revision date 15-Nov-2023

## **Ecotoxicity**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
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)	
Hexane	-	LC50: 2.1 - 2.98mg/L (96h,	-
		Pimephales promelas)	
Rosin	EC50: =400mg/L (72h,	-	EC50: 3.8 - 5.4mg/L (48h,
	Desmodesmus subspicatus)		Daphnia magna)

**Percentage for unknown hazards**0 % 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
Toluene	2.73
108-88-3	
Hexane	4
110-54-3	
Rosin	7.7
8050-09-7	

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.

**Endocrine Disruptor Information** 

## 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

<u>IMDG</u>

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives (Hexane), 3, II, (-20°C c.c.), Marine pollutant

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), Environmentally Hazardous

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

<u>IATA</u>

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 II
Environmental hazard Yes

## 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

#### **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
Hexane	110-54-3	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 Date** 16-Sep-2021 **Revision date** 15-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.

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