ThreeBond

SAFETY DATA SHEET

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

> Issuing Date 09-Jun-2021 Revision date 08-Nov-2023 Revision Number 3

1. Identification

Product Name ThreeBond 1201E

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 3
Acute toxicity - Oral	Classification not possible
Acute toxicity - Dermal	Classification not possible
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	Category 2
Serious eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Classification not possible
Effects on or via lactation	Classification not possible
Specific target organ toxicity (single exposure)	Category 3
Category 3 Target organ effects: Respiratory irritation, Narcotic effects.	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 Respiratory system, liver, testes.	
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2
Ozone	Classification not possible

GHS label elements



Signal word

Danger

Hazard statements

H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Respiratory system, liver, testes.

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
- · Use only outdoors or in a well-ventilated area
- · Do not breathe dust/fume/gas/mist/vapors/spray
- 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
- · 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
- Specific treatment (see section 4 on this SDS)

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

Spill

Collect spillage

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 nature

Generated during the curing reaction of methyl ethyl ketone oxime

Chemical name	CAS No.	Weight-%	ENCS Number	ISHL No.
1,3,5-Trimethylbenzene	108-67-8	2.6	(3)-7,(3)-3427	(3)-7,(3)-3427
Xylenes (o-, m-, p- isomers)	1330-20-7	0.28	(3)-3,(3)-60	(3)-3,(3)-60
Titanium dioxide (IV)	13463-67-7	1-<5	(1)-558,(5)-5225	(1)-558,(5)-5225
Quartz	14808-60-7	24	(1)-548	(1)-548
Stoddard solvent	8052-41-3	22		
Benzene, 1,2,4-trimethyl-	95-63-6	0.1-<1	(3)-7,(3)-3427	(3)-7,(3)-3427
Silicone resin and additive	-	35-<45		

This product contains ≥0.1 - <0.3% of substance (s) that are classified for Reproductive toxicity Category 1/1A/1B/Lactation.

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)

Class I designated chemical substance

Weight-%

Trimethylbenzene

Chemical name	Cabinet order name	Metal, CN, F, etc.	Conversion coefficient	Category	Ordinance number	Control number
*	Trimethylbenzene			Class I designated chemical substance	1-342	691

^{*} Refer to Cabinet order name

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
1,3,5-Trimethylbenzene	Trimethylbenzene	108-67-8	
Xylenes (o-, m-, p- isomers)	Xylene	1330-20-7	
Titanium dioxide (IV)	Titanium(IV) oxide	13463-67-7	
Quartz	Crystalline silica	14808-60-7	
Stoddard solvent	Mineral spirits	8052-41-3	
Benzene, 1,2,4-trimethyl-	Trimethylbenzene	95-63-6	

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

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
1,3,5-Trimethylbenzene	Trimethylbenzene	108-67-8	
Titanium dioxide (IV)	Titanium(IV) oxide	13463-67-7	
Quartz	Crystalline silica	14808-60-7	

Stoddard solvent	Mineral spirits	8052-41-3	
Benzene, 1,2,4-trimethyl-	Trimethylbenzene	95-63-6	

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
1,3,5-Trimethylbenzene	108-67-8	Priority assessment chemical substance
Xylenes (o-, m-, p- isomers)	1330-20-7	Priority assessment chemical substance
Benzene, 1,2,4-trimethyl-	95-63-6	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. Immediate medical attention is required.

In case of inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. 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. Get medical attention if irritation develops and persists.

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.

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

Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical

advice/attention.

Most important symptoms/effects,

acute and delayed

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomitina.

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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin,

eves or clothing.

Note to physicians 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 mediaDo 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. 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.

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. Take off contaminated clothing and wash before

reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

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.

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. 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
1,3,5-Trimethylbenzene 108-67-8	TWA: 25 ppm TWA: 120 mg/m ³	-	TWA: 10 ppm	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 217 mg/m ³	50 ppm	TWA: 20 ppm	-	-
Titanium dioxide (IV) 13463-67-7	TWA: 0.3 mg/m ³	-	TWA: 0.2 mg/m³ nanoscale respirable particulate matter TWA: 2.5 mg/m³ finescale respirable particulate matter	-	-
Quartz 14808-60-7	TWA: 0.03 mg/m ³	-	TWA: 0.025 mg/m³ respirable particulate matter	-	-
Stoddard solvent 8052-41-3	-	-	TWA: 100 ppm	-	-
Benzene, 1,2,4-trimethyl- 95-63-6	TWA: 25 ppm TWA: 120 mg/m ³	-	TWA: 10 ppm	-	-

Biological monitoring indicator

Chemical name	Japan Society of Occupational Health	ACGIH
Xylenes (o-, m-, p- isomers)	800 mg/L - urine (total (o-, m-, p-)	1.5 g/g creatinine - urine (Methylhippuric
1330-20-7	Methylhippuric acid) - end of shift at end	acids) - end of shift
	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. 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
Color Gray
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 43.8 °C Seta closed cup

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 viscosity 4 Pa·s

Water solubilitySlightly solubleSolubility(ies)no data availablePartition Coefficientno data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 1.18

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

Page 7/12

10. Stability and reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions React with moisture in air. Gradually release hazardous gas.

Conditions to avoid Extreme 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) 31,139.10 mg/kg **ATEmix (dermal)** 6,156.10 mg/kg

Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,3,5-Trimethylbenzene	-	-	$= 24 \text{ g/m}^3 \text{ (Rat) 4 h}$
Xylenes (o-, m-, p- isomers)	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
Titanium dioxide (IV)	> 10000 mg/kg (Rat)	-	= 5.09 mg/L (Rat)4 h
Stoddard solvent	-	> 3000 mg/kg (Rabbit)	> 5.5 mg/L (Rat) 4 h
Benzene, 1,2,4-trimethyl-	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

Symptoms Difficulty in breathing. Coughing and/ or wheezing. 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.

Inhalation Specific test data for the substance or mixture is not available. 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.

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).

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

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

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.

Carcinogenicity The hazardous substance(s) which is (are) any of the following substances and listed on

section 3 is (are) embedded in the product and not available as respirable dusts. When used

as intended or as supplied, the product will not pose hazards of the hazardous

substance(s). Silica, Quartz, Carbon black, Titanium oxide, Crystalline silica. 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
Xylenes (o-, m-, p- isomers) 1330-20-7	-	Group 3
Titanium dioxide (IV) 13463-67-7	2	Group 2B
Quartz 14808-60-7	1A	Group 1

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

STOT - single exposure The following hazardous substance is embedded in the product and not available as

respirable dusts. When used as intended or as supplied, the product will not pose hazards of the hazardous substance. Silica. May cause respiratory irritation. May cause drowsiness

or dizziness.

STOT - repeated exposure The hazardous substance(s) which is (are) any of the following substances and listed on

section 3 is (are) embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards of the hazardous substance(s). Silica, Quartz, Carbon black, Crystalline silica. May cause damage to organs

through prolonged or repeated exposure.

May cause damage to the following organs through prolonged or repeated exposure: Respiratory system, liver, testes.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,3,5-Trimethylbenzene	-	LC50: =3.48mg/L (96h,	-
		Pimephales promelas)	
Xylenes (o-, m-, p- isomers)	-	LC50: =13.4mg/L (96h,	EC50: =3.82mg/L (48h, water
		Pimephales promelas)	flea)
		LC50: 2.661 - 4.093mg/L (96h,	LC50: =0.6mg/L (48h,
		Oncorhynchus mykiss)	Gammarus lacustris)
		LC50: 13.5 - 17.3mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 13.1 - 16.5mg/L (96h,	
		Lepomis macrochirus)	
		LC50: =19mg/L (96h, Lepomis	
		macrochirus)	
		LC50: 7.711 - 9.591mg/L (96h,	
		Lepomis macrochirus)	
		LC50: 23.53 - 29.97mg/L (96h,	
		Pimephales promelas)	
		LC50: =780mg/L (96h,	
		Cyprinus carpio)	
		LC50: >780mg/L (96h,	
		Cyprinus carpio)	
		LC50: 30.26 - 40.75mg/L (96h,	
		Poecilia reticulata)	
Benzene, 1,2,4-trimethyl-	-	LC50: 7.19 - 8.28mg/L (96h,	EC50: =6.14mg/L (48h,
		Pimephales promelas)	Daphnia magna)

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
Xylenes (o-, m-, p- isomers)	3.15
1330-20-7	
Stoddard solvent	6.4
8052-41-3	
Benzene, 1,2,4-trimethyl-	3.63
95-63-6	

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

Revision date 08-Nov-2023

IMDG

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, III, (43.8°C c.c.)

Transport hazard class(es)

Packing group

Marine pollutant

EmS-No.

Special Provisions

3

III

P

F-E, S-D

223, 955

ADR

UN number or ID number UN1133 UN proper shipping name Adhesives

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

Transport hazard class(es) 3
Packing group III
Environmental hazards Yes
ERG Code 3L

IATA

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, III

Transport hazard class(es) 3
Packing group III
Special Provisions A3

<u>Japan</u>

UN number or ID number UN1133 UN proper shipping name Adhesives

Description UN1133, Adhesives, 3, III

Transport hazard class(es) 3
Packing group III
Special Provisions 223

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 3 - 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

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.
Quartz	14808-60-7

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, 2nd class petroleums, water-insoluble, hazard rank III, 1000 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
1,3,5-Trimethylbenzene	108-67-8	Priority assessment chemical substance
Xylenes (o-, m-, p- isomers)	1330-20-7	Priority assessment chemical substance
Benzene, 1,2,4-trimethyl-	95-63-6	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 Date09-Jun-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.