ThreeBond

SAFETY DATA SHEET

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

> Issuing Date 03-Mar-2022 Revision date 14-Nov-2023 Revision Number 3

1. Identification

Product Name ThreeBond 1521C

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 solids	Category 1
te 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 2B
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	Yes
Specific target organ toxicity (single exposure)	Category 1, Category 3
Category 1 Central nervous system.	
Category 3 Target organ effects: Respiratory irritation, Narcotic effects.	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 Central nervous system, kidneys.	•
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 3

Ozone Classification not possible

GHS label elements



Signal word

Danger

Hazard statements

- H228 Flammable solid
- H332 Harmful if inhaled
- H315 Causes skin irritation
- H320 Causes eye irritation
- H360 May damage fertility or the unborn child
- H362 May cause harm to breast-fed children
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H401 Toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure

Causes damage to the following organs: Central nervous system.

Causes damage to the following organs through prolonged or repeated exposure: Central nervous system, 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
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid contact during pregnancy and while nursing
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- 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
- 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: 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	40	(3)-2,(3)-60	2-(8)-869
Carbon black	1333-86-4	1-<5	-	(5)-5222,(5)-3328
Chloroprene Synthetic rubber, Synthetic resin, Inorganic filler	-	50-<60		

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	1-347	300
				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	
Carbon black	Carbon black	1333-86-4	

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

Chemical name	Ministerial Ordinance Name	CAS No.	Implementation date
Toluene	Toluene	108-88-3	
Carbon black	Carbon black	1333-86-4	

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. 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. 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. Get medical attention if irritation develops and persists. Remove contact lenses, if present

and easy to do. Continue rinsing.

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

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

eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

Specific hazards arising from the

Flammable properties

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.

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

explode when heated. Many liquids are lighter than water.

Special Extinguishing MediaCool 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 generation of dust. Do not breathe dust.

For emergency responders

Use personal protection recommended in Section 8.

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. 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. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

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 ³ S*	20 ppm	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm	-	-
Carbon black 1333-86-4	TWA: 4 mg/m ³ TWA: 1 mg/m ³	-	TWA: 3 mg/m³ 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
	0.06 mg/L - urine (Toluene) - within 2 h	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

Eye/face 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.

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 stateSolidColorBlackOdorSolvent odor

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point no data available **Initial boiling point and boiling range**110 °C or above **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 4 °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 viscosity 130 Pa·s

Water solubility Insoluble in water Solubility(ies) no data available Partition Coefficient no data available

(n-octanol/water)

Vapor pressure no data available

Density and/or relative density

Relative density 1.2

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 Strong oxidizing agents.

Incompatible materials No information available.

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)
 21,500.00 mg/kg

 ATEmix (dermal)
 6,266.70 mg/kg

 ATEmix (inhalation-vapor)
 12.00 mg/l

 ATEmix (inhalation-dust/mist)
 6.22 mg/l

Unknown acute toxicity

56.25 % 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
Carbon black	> 15400 mg/kg (Rat)	-	> 4.6 mg/m³ (Rat) 4 h

Abbreviations and acronyms

Rat: Rat

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. Harmful

by inhalation. (based on components).

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. Causes

eye irritation. 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 eye irritation.

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.

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

Chemical name	Japan	IARC
Toluene	-	Group 3
108-88-3		
Carbon black	2	Group 2B
1333-86-4		·

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. May cause harm to breast-fed children.

Target organ effects Central nervous system. Eyes. kidney. liver. Lymphatic System. 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 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. Causes damage to organs

through prolonged or repeated exposure.

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

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

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)	

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	
Γ	Toluene	2.73	
	108-88-3		

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, III

Transport hazard class(es)

Packing group

Marine pollutant

EmS-No.

Special Provisions

3

III

NP

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
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
ERG Code 3L

Japan

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 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:

Combustible solids, group 2, Flammable solids, hazard rank III, 1000 kg

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 Date 03-Mar-2022

Revision date 14-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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