



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2024 Revision Number 7.08

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	TCMTB Standard
Product Code	202-19591
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

### Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture **Flammable liquids** Acute toxicity - Oral Acute toxicity - Inhalation (Dusts/Mists) Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitization Carcinogenicity **Reproductive Toxicity** Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 4 Category 2 Category 2 Category 1 Category 1 Category 2 Category 2 Category 1 Category 1

**Pictograms** 



Signal word

### Hazard statements

- H227 Combustible liquid
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H330 Fatal if inhaled
- H351 Suspected of causing cancer
- H361 Suspected of damaging fertility or the unborn child
- H317 May cause an allergic skin reaction
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life

### **Precautionary statements-(Prevention)**

Obtain special instructions before use

- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Do not eat, drink or smoke when using this product
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- · Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

### **Precautionary statements-(Response)**

· IF exposed or concerned: Get medical advice/attention

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina

- Immediately call a POISON CENTER or doctor/physician
- Take off contaminated clothing and wash before reuse
- · IF ON SKIN: Wash with plenty of soap and water
- · If skin irritation or rash occurs: Get medical advice/attention
- · IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- · In case of fire: Use suitable extinguishing media for extinction
- Collect spillage

### Precautionary statements-(Storage)

- Store locked up
- · Store in a well-ventilated place. Keep cool
- Precautionary statements-(Disposal)

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

#### Others Other hazards

Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Single Substance or Mixture

Formula

### C9H6N2S3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Busan	98.0	238.35	(5)-3424	*	21564-17-0
Note on ISHI. No :	* in the	table means appour	and chamical substa	ncoc	^

Note on ISHL No.:

in the table means announced chemical substances.

## Section 4: FIRST AID MEASURES

### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

## Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### **Protection of first-aiders**

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

Special extinguishing method

No information available

### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

#### No information available Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

### Handling

### Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

### Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

### Storage

#### Safe storage conditions Storage conditions

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed with an inert gas.

# Safe packaging material Incompatible substances

Glass Strong oxidizing agents

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Personal protective equipment Respiratory protection Hand protection Eye protection Skin and body protection General hygiene considerations	gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice. If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Form Color yellow - reddish yellow Turbidity clear Appearance liquid Odor -10 °C Melting point/freezing point 191 °C Boiling point, initial boiling point and boiling range Flammability **Evaporation rate:** Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: 66 °C Flash point Auto-ignition temperature: **Decomposition temperature:** рΗ Viscosity (coefficient of viscosity) **Dynamic viscosity Solubilities** n-Octanol/water partition coefficient:(log Pow) 3.3 Vapour pressure Specific Gravity / Relative density

no data available Combustible liquid no data available Ethanol, acetone: soluble. water: practically insoluble, or insoluble. no data available 1.4 8.2 no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

Vapour density Particle characteristics

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Busan	750 mg/kg (Rat)	> 2000 mg/kg (Rat) > 2000 mg/kg(Rabbit)	0.07 mg/L(Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Busan	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Busan	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Busan	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Busan	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Busan	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Busan	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Busan	Based on the NITE GHS classification results.	

#### Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Busan	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Busan	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Busan	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Busan	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Busan	N/A	LC50 : Lepomis macrochirus	LC50 : Ceriodaphnia dubia
		0.0087 mg/L 96 h	0.0153 mg/L 48 h

### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Busan	Based on the NITE GHS classification	Based on the NITE GHS classification

	results.	results.
Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer	Degree of decomposition: No information available No information available No information available	0 % by BOD (METI Existing chemical safety inspections)
Se	ction 13: DISPOSAL	CONSIDERATIONS
Contaminated container and conta Disposal should be in accordance	minated packaging	ational and local laws and regulations. ational and local laws and regulations. <b>DRT INFORMATION</b>
ADR/RID		
UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2810 Toxic liquid, organic, n.o.s. 6.1 II Yes	(Busan)
IMDG		
UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN2810 Toxic liquid, organic, n.o.s. 6.1 II Yes No information available	(Busan)
IATA		
UN number Proper shipping name: UN classfication Subsidiary hazard class	UN2810 Toxic liquid, organic, n.o.s. 6.1	(Busan)
Packing group Environmentally Hazardous Substance	ll Yes	
	otion 15: DECULAT	
Se	ction 15: REGULAI	ORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class II petroleums, dangerous grade 3 Not applicable
Industrial Safety and Health Ac	t Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1
	Item 4)
	Mutagens - Existing Chemicals
Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer Not applicable
Register Law
(2023.4.1-)
Export Trade Control Order Not applicable

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions Disclaimer	The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet