



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 09-Feb-2023 Revision Number 5.02

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-Mercapto-2-thiazoline
Product Code	136-05112,130-05115
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Supplier	Fax: +81-6-6203-5964 FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses and restrictions on use	Fax. +61-0-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral

Pictograms



Danger

### Hazard statements

H301 - Toxic if swallowed

#### Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Precautionary statements-(Response)
  - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
  - Rinse mouth

### Precautionary statements-(Storage)

#### Store locked up

Precautionary statements-(Disposal)

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

Others Other hazards

Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Category 3

#### Substance Single Substance or Mixture

C3H5NS2 Formula

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2-Mercaptothiazoline	95.0	119.21	N/A	N/A	96-53-7
Note on ISHL No.: * in the table means announced chemical substances.					

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Not applicable Impurities and/or Additives:

### 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.

#### Indestion

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

Water spray (fog), 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.

#### 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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

#### **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** Avoid contact with 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 Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Storage Safe storage conditions Keep container protect from light, store Storage conditions in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Safe packaging material Glass Incompatible substances 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

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	White - slightly brown
Appearance	crystals - powder
Odor	no data available
Melting point/freezing point	101-108 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Hot water , acetone : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available

Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available no data available no data available

### Section 10: STABILITY AND REACTIVITY

Stability

 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

 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	toxi	citv
Acute	LUAI	ully

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Mercaptothiazoline	300 mg/kg (Rat)	N/A	N/A

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Other data	no data available
Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer	No information available No information available No information available No information available

### Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Contaminated container and contaminated packaging** 

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### Section 14: TRANSPORT INFORMATION

ADR/RID
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UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (2-Mercaptothiazoline)
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Marine pollutant	Not applicable
IMDG	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (2-Mercaptothiazoline)
UN classification	6.1
Subsidiary hazard class	
Packing group	111
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (2-Mercaptothiazoline)
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Not applicable
Substance	

### Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law Industrial Safety and Health Ac Regulations for the carriage	Not applicable Not applicable tNot applicable 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 Register Law (~2023.3.31) <u>Pollutant Release and Transfer</u> <u>Register Law</u> (2024/44)	
(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

#### Disclaimer

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 Z7252(2019). \*JIS: Japanese Industrial Standards

End of Safety Data Sheet