



# SAFETY DATA SHEET

According to JIS Z 7253:2012

Revision Date 07-Aug-2019

Version 5.01

# **Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Product name	Trimethylthiourea
Product code	208-11835,204-11832
CAS RN	2489-77-2

Formula (CH3)2NCSNHCH3

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-5964

Supplier FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number

+81-6-6203-3741 / +81-3-3270-8571

Recommended uses and

restrictions on use

For research purposes

## **Section 2: HAZARDS IDENTIFICATION**

GHS classification
Classification of the substance or mixture

Carcinogenicity Category 2

#### **Pictograms**



Signal word

Warning

#### **Hazard statements**

H351 - Suspected of causing cancer

#### **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.

### Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

### **Precautionary statements-(Storage)**

· Store locked up.

#### **Precautionary statements-(Disposal)**

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

Others

Other hazards Not available

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### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula (CH3)2NCSNHCH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Trimethylthiourea	95.0	118.20	(2)-1766	公表	2489-77-2

Impurities and/or Additives : Not applicable

### **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.

#### Eye 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

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

#### Unsuitable extinguishing media

No information available

#### Special extinguishing method

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Protection of 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material Polyethylene

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 Dust mask Hand protection Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection 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 - pale yellow

Appearance crystalline powder - powder

OdorNo data availablepHNo data available

Melting point/freezing point 68 °C

Boiling point, initial boiling point and boiling range
Flash point
Evaporation rate:
No data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
No data available
No data available
Vapour pressure
Vapour density
No data available

**Solubilities** water, Ethanol and acetone: soluble.

n-Octanol/water partition coefficient:(log Pow)

Auto-ignition temperature:

Decomposition temperature:

Viscosity (coefficient of viscosity)

No data available

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

May be altered by light. Stability Reactivity No data available

**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

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethylthiourea	316mg/kg(Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Trimethylthiourea	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 dust- source information	Acute toxicity -inhalation mist- source information
	vapor- source information	Source information	Source information
Trimethylthiourea	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
Trimethylthiourea	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

Chemical Name	Serious eye damage source information
Trimethylthiourea	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory, Skin sensitization source information
Trimethylthiourea	Based on the NITE GHS classification results.

Reproductive cell mutagenicity **Chemical Name** 

Trimethylthiourea	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information

**Mutagenic source information** 

STOT -repeated exposure- source information

Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Trimethylthiourea	Based on the NITE GHS classification results.
STOT-single exposure	·

STOT-single exposure

	Chemical Name	STOT -single exposure- source information
	Trimethylthiourea	Based on the NITE GHS classification results.
STOT-repeated e	xposure	

**Chemical Name** 

Trimethylthiourea

Aspiration hazard				
Chemical Name	Aspiration Hazard source information			
Trimethylthiourea	Based on the NITE GHS classification results.			

## **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trimethylthiourea	N/A	N/A	EC50 : Daphnia magna 770
			mg/L 48h

#### Other data

Chemical Name	Aquatic toxicity -Acute- source information	Aquatic toxicity -Chronic- source information
Trimethylthiourea	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability Bioaccumulative potential Mobility in soil

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

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **Section 14: TRANSPORT INFORMATION**

ADR/RID Not regulated

UN number Proper shipping name:

UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

**Substance** 

### **Section 15: REGULATORY INFORMATION**

### **International Inventories**

**EINECS/ELINCS** Listed Listed

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

Register Law

**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.

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#### **Disclaimer**

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(2014). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet** 

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