



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Sep-2023

Revision Number 4.06

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Dimethyldithiocarbamate Dihydrate Standard	
Product Code	194-09651	
Supplier	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 +81-6-6203-3741 / +81-3-3270-8571 Recommended uses +81-6-6203-3741 / +81-3-3270-8571

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

### **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Skin corrosion/irritationCategory 2Specific target organ toxicity (single exposure)Category 2Category 2Category 2

Specific target organ toxicity (repeated exposure)

Category 2

Category 2

Category 2

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



### **Hazard statements**

H315 - Causes skin irritation

H302 - Harmful if swallowed

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H371 - May cause damage to the following organs: nervous system, systemic toxicity

H373 - May cause damage to the following organs through prolonged or repeated exposure: nervous system, systemic toxicity

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

- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment

### Precautionary statements-(Response)

• IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- · Collect spillage

### 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

Single Substance or Mixture Substance

Formula C3H6NNaS2·2H2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium	97.0	179.24	N/A	N/A	72140-17-1
Dimethyldithiocarbamate	;				
Dihydrate					

Note on ISHL No.: \* in the table means announced chemical substances.

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

### 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

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

### **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 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 Dust mask ( JIS T 8151 )

Hand protection chemical protective gloves (JIS T 8116)

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

ColorWhite - nearly whiteAppearancecrystals - crystalline powder

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or

no data available
no data available
no data available

explosive limits

Upper:
Lower:
no data available
pH
Strongly alkaline (aq.)

Viscosity (coefficient of viscosity)

Dynamic viscosity

no data available
no data available

**Solubilities** water , Ethanol : soluble . benzene , acetone , chloroform :

insoluble .

n-Octanol/water partition coefficient:(log Pow)
No data available
Napour pressure
No data available
Napour density
Napour density
No data available
Particle characteristics
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**

Data as hydrated compound has not been obtained. The data as anhydrous compound is described.

**Acute toxicity** 

Addit toxidity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dimethyldithiocarbamate	1000 mg / kg ( Rat )	> 5000 mg / kg ( Rat )	N/A
Dihydrate			

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

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

#### Skin irritation/corrosion

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

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

# **Section 12: ECOLOGICAL INFORMATION**

Data as hydrated compound has not been obtained. The data as anhydrous compound is described.

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Dimethyldithiocarbamate	N/A	N/A	EC50 : Daphnia magna 0.052 mg / L 48 h
Dihydrate			0.052 Hig / L 46 H

#### Other data

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

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

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Sodium Dimethyldithiocarbamate

Dihydrate)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

**UN** number UN3077

Environmentally hazardous substance, solid, n.o.s. (Sodium Dimethyldithiocarbamate Proper shipping name:

Dihydrate)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Sodium Dimethyldithiocarbamate

Dihydrate)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

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

Japanese regulations

**Fire Service Act** Not applicable **Poisonous and Deleterious** Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Mutagens - Existing Chemicals

Regulations for the carriage

and storage of dangerous

Transport by Ship and Storage, Attached Table 1)

goods in ship

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification Civil Aeronautics Law

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.

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

### 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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**