



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 25-Mar-2024

Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1-Naphthyl Isothiocyanate	
Product Code	149-06801	

**Supplier** FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

**Recommended uses** For research use only

**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 3Acute toxicity - DermalCategory 4Acute toxicity - Inhalation (Dusts/Mists)Category 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ARespiratory sensitizationCategory 1

#### **Pictograms**



Signal word

Danger

### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

# **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- · Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- In case of inadequate ventilation wear respiratory protection

### Precautionary statements-(Response)

• IF IN EYES: 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
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- 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

Single Substance or Mixture Substance

Formula C10H7NCS

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1-Naphthyl	93.0	185.24	N/A	N/A	551-06-4
isothiocvanate					

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.

#### 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.

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 (JIS T 8147)

Skin and body protection Long-sleeved work clothes

# General hygiene considerations

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 White - red or yellow brown

Appearance crystals - powder
Odor no data available

Melting point/freezing point 56 °C

Boiling point, initial boiling point and boiling range
Flammability
no data available
ro data available
no data available
no data available
no data available
ro data available
no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

**Solubilities** acetone: soluble, . water: practically insoluble, or insoluble.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-Naphthyl isothiocyanate	200 mg/kg ( Rat )	N/A	N/A

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

**Reproductive toxicity**STOT-single exposure
no data available
no data available

STOT-repeated exposure no data available no data available **Aspiration hazard** 

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** no data available

Other data no data available

Persistence and degradability No information available **Bioaccumulative potential** No information available Mobility in soil No information available No information available Hazard to the ozone layer

# **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

**UN** number UN2811

Toxic solid, organic, n.o.s. (1-Naphthyl isothiocyanate) Proper shipping name:

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

**UN** number UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (1-Naphthyl isothiocyanate)

6.1

**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

**UN** number UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (1-Naphthyl isothiocyanate)

UN classfication

Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

**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 Not applicable

Industrial Safety and Health Act ( [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

2024~)

Regulations for the carriage and storage of dangerous

goods in ship **Civil Aeronautics Law**  Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1)

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**