



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 30-Aug-2023 Revision Number 5.02

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	N,N-Diethyl-N'-1-naphthylethylenediamine Oxalate
Product Code	200-03421,208-03422,206-03423
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 Recommended uses Restrictions on use	+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 <u>Classification of the substance or mixture</u> Acute toxicity - Oral Acute toxicity - Dermal Acute toxicity - Inhalation (Dusts/Mists) Skin corrosion/irritation Serious eye damage/eye irritation

Pictograms



Signal word

Danger

#### **Hazard statements**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H331 Toxic if inhaled

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

- Do not eat, drink or smoke when using this product
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- · Wear protective gloves/protective clothing/eye protection/face 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse

Category 3 Category 3 Category 3 Category 2 Category 2A

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

Precautionary statements-(Storage)

· Store in a well-ventilated place. Keep container tightly closed

· 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

#### C10H7NHCH2CH2N(C2H5)2·C2H2O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
N,N-Diethyl-N'-1-naphth	98.0	332.39	N/A	N/A	29473-53-8
ylethylenediamine					
Oxalate					
Nata an IOLU Na i	* :	table means anna un	and also mained as the sta		

Note on ISHL No.:

\* in the table means announced chemical substances.

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.

Not applicable

#### 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, store
	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up.
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** Hand protection Eye protection Skin and body protection Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) 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 Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits	crystals - powder no data available 167 °C (dec.) no data available no data available no data available no data available
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	water : slightly soluble . Diethyl ether : practically insoluble,or
	insoluble . Ethanol : very slightly soluble.
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	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)

# Section 11: TOXICOLOGICAL INFORMATION

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available

no data available no data available no data available no data available no data available no data available

no data available 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

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

### Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2811 Toxic solid, organic, n.o.s. (N,N-Diethyl-N'-1-naphthylethylenediamine Oxalate) 6.1 III Not applicable
IMDG	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (N,N-Diethyl-N'-1-naphthylethylenediamine Oxalate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	 Natara Cashla
Marine pollutant (Sea)	Not applicable No information available
Transport in bulk according to Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (N,N-Diethyl-N'-1-naphthylethylenediamine Oxalate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	III Not applicable
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Deleterious Substances 3rd. Grade
Substances Control Law	
Industrial Safety and Health Ac	t Not applicable
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous goods in ship	Regarding Transport by Ship and Storage, Attached Table 1)
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	Not applicable

#### (2023.4.1-) Export Trade Control Order Not ap

Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
N,N-Diethyl-N'-1-naphthylethylenediamin e Oxalate 29473-53-8 (98.0)	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	The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. Regulatory information.

#### 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