



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2023 Revision Number 6.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dicyclohexylamine Nitrite
Product Code	043-01672,047-01675
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 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	+81-6-6203-3741 / +81-3-3270-8571 For research use only

### Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture Flammable solids Acute toxicity - Oral Specific target organ toxicity (single exposure) Category 1 blood forming system

Category 1 Category 2 Category 3 Category 1

**Pictograms** 



Signal word

### **Hazard statements**

- H228 Flammable solid
- H301 Toxic if swallowed
- H370 Causes damage to the following organs: blood forming system

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

- 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
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Ground/bond container and receiving equipment
- · Use explosion-proof electrical/ ventilating / lighting / equipment
- Wear protective gloves/protective clothing/eye protection/face protection
- Precautionary statements-(Response)
  - IF exposed: Call a POISON CENTER or doctor/physician
  - · Wash contaminated clothing before reuse

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- . In case of fire: Use CO2, dry chemical, or foam for extinction
- 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

#### (C6H11)2NH·HNO2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dicyclohexylamine nitrite	95.0	228.33	(3)-2686,(3)-2259	*	3129-91-7
Note on ISHL No.:	Io.: * 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, store
-	in well-ventilated place at room temperature (preferably cool). Keep container tightly
	closed. Store locked up.
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 Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

White - slightly yellow crystalline powder no data available 180 °C (dec.) no data available Flammable solid no data available

no data available Flammability (solid, gas): Upper/lower flammability or explosive limits no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available Decomposition temperature: no data available pН no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities water, Ethanol: soluble.acetone: practically insoluble,or insoluble . no data available n-Octanol/water partition coefficient:(log Pow) 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, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

### Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dicyclohexylamine nitrite	200 mg/kg(Rat)	> 2000mg/kg bw ( Rat )	> 90 mg/m³ ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Dicyclohexylamine nitrite			Based on the NITE GHS
, , , , , , , , , , , , , , , , , , ,	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
			Based on the NITE GHS Classification results.

#### Skin irritation/corrosion

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.	
as	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	
Reproductive toxicity		
Chemical Name	Reproductive toxicity source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	
Aspiration hazard	•	
Chemical Name	Aspiration Hazard source information	
Dicyclohexylamine nitrite	Based on the NITE GHS classification results.	

### Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

No information available

#### Other data

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

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	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	UN2687
Proper shipping name:	Dicyclohexylammonium nitrite
UN classfication	4.1
Subsidiary hazard class	
Packing group	111
Marine pollutant	Not applicable
IMDG	
UN number	UN2687
Proper shipping name:	Dicyclohexylammonium nitrite
UN classfication	4.1
Subsidiary hazard class	
Packing group	111

Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
ΙΑΤΑ	
UN number	UN2687
Proper shipping name:	Dicyclohexylammonium nitrite
UN classfication	4.1
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous	Not applicable
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed	
Japanese regulations		
Fire Service Act	Not applicable	
Poisonous and Deleterious	Deleterious Substances 3rd. Grade	
Substances Control Law		
Industrial Safety and Health ActNot applicable		
Regulations for the carriage	Flammable Solids - Flammable Solids (Ordinance Art.3, Ministry of Transportation	
and storage of dangerous	Ordinance Regarding Transport by Ship and Storage, Attached Table 1)	
goods in ship		
Civil Aeronautics Law	Flammable Solids (Ordinance Art. 194, MITL Nortification for Air Transportation of	
	Explosives etc., Attached Table 1)	
Pollutant Release and Transfer	Not applicable	
Register Law		
(~2023.3.31)		
Pollutant Release and Transfer	Not applicable	
Register Law		
(2023/4/1~)		
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating	
	Wastewater Standards Art.1)	
Export Trade Control Order	Not applicable	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Dicyclohexylamine nitrite 3129-91-7 ( 95.0 )	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

### 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