



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 1.09

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	N,N-Dimethyl-n-dodecylamine
Product Code	042-24582,046-24585

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 For research use only

Restrictions on useSeek 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 1Serious eye damage/eye irritationCategory 1Reproductive ToxicityCategory 2Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1





Hazard statements

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H361 Suspected of damaging fertility or the unborn child
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

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

Precautionary statements-(Response)

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- Do NOT induce vomiting
- 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 CH3(CH2)11N(CH3)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
N,N-Dimethyldodecylami	97.0	213.40	(2)-185,(2)-176	2-(10)-54	112-18-5
ne					

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

carbon dioxide (CO2), dry chemical, dry sand, alcohol-resistant foam

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

If impossible to extinguish, protect surroundings and allow fire to burn itself out

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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 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 Protective mask

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 Colorless - slightly yellow

Turbidity clear Appearance liquid

Odor no data available

Melting point/freezing point -20 °C

Boiling point, initial boiling point and boiling range 134-137 °C (14.7 hPa)

Flammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point 130 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities Ethanol and acetone : Very 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
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

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
N,N-Dimethyldodecylamine	1450 mg/kg (Mouse)	abt. 5000 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
14,14 Billiotilyladaddylariillo			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-

Serious eye damage/irritation source information

germ cell mutagencity source information

STOT -repeated exposure- source information

Based on the NITE GHS classification results.

	vapor- source information	source information	source information		
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.		
Skin irritation/corrosion					
in irritation/corrosion					
in irritation/corrosion Chemica	l Name	Skin corrosion/irr	itation source information		

N,N-Dimethyldodecylamine
Respiratory or skin sensitization

Chemical Name

Respiratory of Skill Sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

CHOILIGUI HUITE	3
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information

Chemical Name	Carcinogenicity source information
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information

N,N-Dimethyldodecylamine Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name

N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.	
Aspiration hazard		
2.	A 1 41 11 1 1 1 4 4 4 1	

Aspiration hazard			
Chemical Name	Aspiration Hazard source information		
N,N-Dimethyldodecylamine	Based on the NITE GHS classification results.		

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N,N-Dimethyldodecylamine	EC50: Scenedesmus	LC50:Brachydanio rerio	N/A
	0.034 mg/L 72 h	0.71 - 1 mg/L 96 h	

Other data

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

UN number UN2735

Proper shipping name: Amines, liquid, corrosive, n.o.s. (N,N-Dimethyldodecylamine)

UN classfication

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

IMDG

UN number UN2735

Proper shipping name: Amines, liquid, corrosive, n.o.s. (N,N-Dimethyldodecylamine)

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

UN2735 **UN** number

Amines, liquid, corrosive, n.o.s. (N,N-Dimethyldodecylamine) Proper shipping name:

UN classfication

Subsidiary hazard class

Ш Packing group **Environmentally Hazardous** Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, Class III petroleums, dangerous grade 3

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~)

【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Industrial Safety and Health Act (2025~) 【2025.4.1~】 Notifiable Substances (Law Art.57-2)

Act on the Evaluation of **Chemical Substances and** Regulation of Their

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Manufacture, etc Regulations for the carriage

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerous goods in ship

Civil Aeronautics Law Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category X

Pollutant Release and Transfer Class 1

Register Law

(2023.4.1-)

Class 1 - No. 223

Not applicable **Export Trade Control Order**

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-Dimethyldodecylamine 112-18-5 (97.0)	-	(Law Alt.37-2)	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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