



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 11-Sep-2024 Revision Number 1.11

Category 3

Category 1 Category 1

Category 3

Category 3

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	N,N-Dimethylbenzylamine	
Product Code	042-02823,046-02826	
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 Classification of the substance or mixture **Flammable liquids** Skin corrosion/irritation Serious eye damage/eye irritation Acute aquatic toxicity Chronic aquatic toxicity

Pictograms



Hazard statements

- H226 Flammable liquid and vapour
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge

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: Rinse mouth. Do NOT induce vomiting
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- Store locked up
- Store in a well-ventilated place. Keep cool
- 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

C6H5CH2N(CH3)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
N,N-Dimethylbenzylamin	98.0	135.21	(3)-332,(3)-350	*	103-83-3
е					

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. Vapors may form explosive mixture with air

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

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

<u>Storage</u>

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 contair
	exposure limits established by the region s

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

gas mask for organic
chemical protective
protective eyeglasse
Long-sleeved work of

gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes 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

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Form	
Color	Colorless - slightly yellow
Turbidity	clear
Appearance	liquid
Odor	no data available
Melting point/freezing point	-75 °C
Boiling point, initial boiling point and boiling range	180 °C
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	57 °C
Auto-ignition temperature:	410 °C
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol and acetone : Very soluble. water : practically
	insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	1.91
Vapour pressure	no data available
Specific Gravity / Relative density	0.895 - 0.903 g/mL
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 dire	ect sunlight, Heat, flames and sparks, static electricity, spark
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	S
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-Dimethylbenzylamine	265 mg/kg(Rat)	1660 mg/kg(Rabbit)	1800 mg/m ³ 2 h(Mouse)

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

Acute toxicity -inhalation vapor- source information	source information	Acute toxicity -inhalation mist- source information
		Based on the NITE GHS classification results.
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Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
N,N-Dimethylbenzylamine	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
N,N-Dimethylbenzylamine	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
N,N-Dimethylbenzylamine	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
N,N-Dimethylbenzylamine	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
N,N-Dimethylbenzylamine	Based on the NITE GHS classification results.

Reproductive toxicity

Deductive toxicity source information TE GHS classification results. -single exposure- source information TE GHS classification results.
single exposure- source information
•
•
TE GHS classification results.
epeated exposure- source information
TE GHS classification results.
iration Hazard source information

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-Dimethylbenzylamine	N/A	LC50 : Pimephales promelas	N/A
		37.8 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-Dimethylbenzylamine	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	Degree of decomposition:	1 % by BOD	This material is persistent.
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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2619 Benzyldimethylamine 8 3 II Not applicable
IMDG	
UN number	UN2619
Proper shipping name:	Benzyldimethylamine
UN classfication	8
Subsidiary hazard class	3
Packing group	II
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN2619
Proper shipping name:	Benzyldimethylamine
UN classfication	8
Subsidiary hazard class	3
Packing group	II.
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class II petroleums, dangerous grade 3 Not applicable
Industrial Safety and Health Act	t Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1
Industrial Safety and Health Act (Item 4) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
2024~) Industrial Safety and Health Act (2025~)	[2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) [2025.4.1~] Notifiable Substances (Law Art.57-2)
Regulations for the carriage and storage of dangerous goods in ship	Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law	Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer Register Law (2023.4.1-)	
Export Trade Control Order	Not applicable

Section 16: OTHER INFORMATION

Key literature references and

NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc.	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