



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: N,N-DIMETHYLDODECYLAMINE N-OXIDE, 30% IN WATER CAS Number: 1643-20-5

## 1. IDENTIFICATION:

Product Code : 90985

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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## 2. HAZARDS IDENTIFICATION:

## Hazard classification

## Health hazards

Skin irritation : Category 2 (Causes skin irritation)

Serious eye damage : Category 1 (Causes serious eye damage)

Short-term (acute) aquatic hazard : Category 1 (Very toxic to aquatic life)

Long-term (chronic) aquatic hazard : Category 2 (Toxic to aquatic life with long lasting effects)

## Labels elements

## Hazard symbol



## Signal word

: Danger

## Hazard statement

: Causes skin irritation.

: Causes serious eye damage.

: Very toxic to aquatic life with long lasting effects.

## Precautionary statement

## Prevention

: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Keep away from heat/ sparks/ open flames/ hot surfaces. 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.

## Response

: IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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



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	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a poison center or doctor/physician.
<b>Storage</b>	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>Disposal</b>	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS:**

Component	CAS Number	Classification	Concentration
Dimethyldodecylamine oxide	1643-20-5	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2; H302, H315, H318, H400, H411 M-Factor - Aquatic Acute: 1	>= 30 - < 50 %

**4. FIRST AID MEASURES:**

<b>General information</b>	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion</b>	: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Inhalation</b>	: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
<b>Skin contact</b>	: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
<b>Eye contact</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>If swallowed</b>	: After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
<b>Most important symptoms/effects, acute and delayed</b>	: The most important known symptoms and effects are described in the labelling.



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Indication of immediate  
medical attention and  
special treatment needed : No data available.

**5. FIRE FIGHTING MEASURES:****General information****Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.

**Specific hazards arising from the chemical** : Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Combustible.  
Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures** : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).  
Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up** : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

**Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Air and moisture sensitive.



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**8. EXPOSURE CONTROLS PERSONAL PROTECTION:****Appropriate engineering****controls** : No data available**Individual protection measures, such as personal protective equipment****General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.**Eye/face protection** : Wear safety glasses with side shields (or goggles).**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**Respiratory protection** : Required when vapours/aerosols are generated.

: Recommended Filter type: Filter type ABEK

**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance** : Clear colourless to light yellow liquid.**Odor** : No data available**Solubility** : Miscible in water.**Formula** :  $C_{14}H_{31}NO$ **Molecular Weight** : 229.4 g/mol**Density** : 0.968 - 0.972 at 25°C**pH** : No data available**% Volatiles by volume @ 21C (70F)** : No data available**Boiling Point** : No data available**Melting Point** : No data available**Flash Point** : 133 °C**Vapor Density (Air=1)** : No data available**Vapor Pressure (mm Hg)** : No data available**Evaporation Rate (BuAc=1)** : No data available



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<b>Reactivity</b>	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
<b>Chemical stability</b>	:	Material is stable under ambient conditions..
<b>Possibility of hazardous reactions</b>	:	Violent reactions possible with: The generally known reaction partners of water.
<b>Conditions to avoid</b>	:	Strong heating.
<b>Incompatible materials</b>	:	Strong oxidizing agents
<b>Hazardous decomposition products</b>	:	In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:****Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

<b>Oral Product</b>	:	No data available.
<b>Dermal Product</b>	:	No data available.
<b>Inhalation Product</b>	:	No data available.
<b>Repeated dose toxicity Product</b>	:	No data available.
<b>Skin corrosion/irritation Product</b>	:	Mixture causes skin irritation.
<b>Serious eye damage/eye irritation Product</b>	:	No data available.
<b>Respiratory or skin sensitization Product</b>	:	No data available.
<b>Carcinogenicity Product</b>	:	No data available.
<b>Germ cell mutagenicity</b>	:	No data available.
<b>Reproductive toxicity Product</b>	:	No data available.
<b>Specific target organ toxicity - single exposure Product</b>	:	Not known.
<b>Specific target organ toxicity - repeated exposure Product</b>	:	No data available.
<b>Aspiration hazard Product</b>	:	No data available.
<b>Other effects</b>	:	No data available.



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## Components

Dimethyldodecylamine oxide

Acute toxicity	LD50 Oral - Rat - male and female - 1.064 mg/kg Acute toxicity estimate Oral - 1.064 mg/kg Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	Skin – Rabbit Result: Irritating to skin.
Serious eye damage/eye irritation	Eyes - Rabbit Result: Risk of serious damage to eyes.
Respiratory or skin sensitization	Buehler Test - Guinea pig Result: negative
Germ cell mutagenicity	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative Remarks: (ECHA) Test Type: Ames test Test system: S. typhimurium Result: negative Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Aspiration hazard	No data available

**12. ECOLOGICAL INFORMATION:**

## Ecotoxicity

## Acute hazards to the aquatic environment

Fish Product : No data available

Aquatic invertebrates Product : No data available

## Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.



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**PRODUCT NAME: N,N-DIMETHYLDODECYLAMINE N-OXIDE, 30% IN WATER** CAS Number: 1643-20-5**Toxicity to Aquatic Plants** : No data available.**Product:****Persistence and degradability****Biodegradation Product** : No data available**BOD/COD ratio Product** : No data available.**Bioaccumulative potential****Bioconcentration factor (BCF) Product** : No data available**Partition coefficient n-octanol / water (log Kow) Product** : No data available.**Mobility in soil** : No data available**Other adverse effects** : No data available**Components****Dimethyldodecylamine oxide****Toxicity to fish** : semi-static test LC50 - Danio rerio (zebra fish) - 31,8 mg/l - 96 h**Toxicity to daphnia and other aquatic invertebrates** : static test EC50 - Daphnia magna (Water flea) - 3,9 mg/l - 48 h**Toxicity to algae** : static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,2 mg/l - 72 h**Toxicity to bacteria** : EC10 - Pseudomonas putida - 80 mg/l - 18 h**Toxicity to fish(Chronic toxicity)** : flow-through test LC50 - Pimephales promelas (fathead minnow) - 0,87 mg/l - 120 d**Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)** : flow-through test NOEC - Daphnia magna (Water flea) - 0,7 mg/l - 21 d**13. DISPOSAL CONSIDERATION:****Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.



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## 14. TRANSPORT INFORMATION:

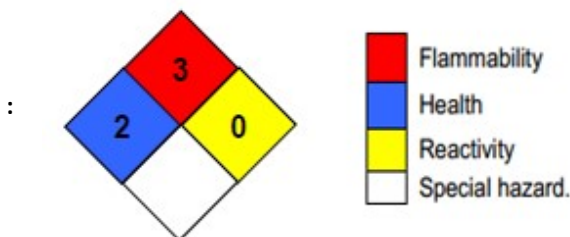
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Environmental hazards
ADR/RID	UN 3082	N,N-Dimethyldodecylamine N-Oxide, 30% In Water	9	III	Yes
IMDG	UN 3082	N,N-Dimethyldodecylamine N-Oxide, 30% In Water	9	III	Yes
IATA	UN 3082	N,N-Dimethyldodecylamine N-Oxide, 30% In Water	9	III	Yes

## 15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

## 16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 16/09/2025

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