


Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 1 / 7	

1. Chemical Product and Company Identification

INCI Name: Dodecyldimethylamine Oxide

CAS No.: 1643-20-5

Chemical structure: $\text{CH}_3(\text{CH}_2)_{11}\text{N}(\text{CH}_3)_2\text{O}$

Trade name: Yeser® OB-2

Product application: Commonly used as a surfactant in various home and personal care cleaning detergents like laundry detergent liquid and dishwashing liquid, hand soap liquid, etc.

Supplier name: GUANGZHOU YESER CHEMICALS CO., LTD

Supplier address: Room 903-05, Building E, Longxi Center, No.18 Qide Road, Guangzhou City, China

Website: yeserchem.com **E-mail:** info@yeserchem.com

Contact number: +86-20- 86213761 400-0768-668

Emergency contact number: +86-20- 86213761

2. Hazards Identification


GHS hazard classification:


Acute toxicity, oral, category 5

Skin corrosion, category 1B

Serious eye damage, category 1

GHS label elements, including precautionary statements

Hazardous components	Dodecyl dimethyl amine oxide
Pictogram	
Signal word	Danger
Hazard statement	H303: May be harmful if swallowed. H314: Causes severe skin burns and eye damage.
Warning statement	No data available

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 2 / 7	

Precautionary statement	<p>P260: Do not breathe dust or fumes.</p> <p>P264: Wash your skin thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection. (Refer to Section 8 of this Material Safety Data Sheet).</p>
Accident response	<p>P301+P330+P331: If swallowing: gargle, do not induce vomiting.</p> <p>P303+P361+P353: If skin (or hair) comes in contact: Immediately remove/take off all contaminated clothing and wash skin/shower with water.</p> <p>P304+P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. If you wear contact lenses and can easily remove them, take out the contact lenses. Continue to rinse.</p> <p>P310: Call a POISON center or doctor.</p> <p>P321: Specific disposal (see first aid instructions provided on this label).</p> <p>P363: Contaminated clothing can be reused after cleaning.</p> <p>P391: Collect spillage.</p>
Storage	P405: The storage area must be locked.
Disposal	P501: Disposal of contents/container to an approved waste disposal plant.

3. Composition/Information on Ingredients

Component	CAS NO.	Percentage %
Laurylamine oxide	1643-20-5	30.0±2.0
Water	7732-18-5	70.0±2.0

4. First aid Measures


General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: If inhaled, move the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.

Skin contact: Take off your contaminated clothing and shoes immediately. Rinse with soap and plenty of water. Consult a doctor.

Eye contact: Immediately rinse with plenty of running water for a prolonged period (at least 15 minutes). consult a doctor.

Ingestion: Do not induce vomiting. Never give anything to the unconscious person through

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 3 / 7	

the mouth. Rinse with water. Consult a doctor.

Most important symptoms and health effects

Cough, shortness of breath, headache, nausea, vomiting

Instructions and instructions for timely medical treatment and special treatment required

No data available

5. Fire-fighting Measures

Extinguishing media

Extinguish with water spray, alcohol-resistant foam, dry powder or carbon dioxide

Special hazards of this substance or mixture

Special hazards during firefighting: Formed during combustion: carbon oxides, nitrogen oxides.

Advice for firefighters

If necessary, wear a self-contained breathing apparatus to fight the fire.

Further information

No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing steam, fumes or gases.

Ensure adequate ventilation. Personnel are evacuated to a safe area. Avoid breathing dust.

Methods and materials for containment and disposal of spilled chemicals

Do not generate dust when collecting and disposing. Sweep off and shovel off. Place in a suitable closed container for disposal.

Reference other parts

Please refer to Section 13 for disposal.

7. Handling and storage

Safety operation precautions

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols.

Storage conditions

Store in a cool place. Keep the container closed and store in a dry, well-ventilated place.

Specific use


No data available

8. Exposure controls/personal protection

Allowable concentration

Maximum allowable concentration: There are no known national exposure limits.

Exposure control

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 4 / 7	

Proper technical control: Operate according to good industrial hygiene and safety regulations.


Wash your hands before breaks and at the end of work.

Personal protective equipment

Eye protection	Face shield and safety glasses Use equipment for eye protection tested and approved under approved government standards such as NIOSH (US) or EN166 (EU).
Skin protection	Gloves must be inspected before use. Use a suitable method to remove the gloves (do not touch the outer surface of the glove) and avoid contact with any part of the skin. Dispose of contaminated gloves after use in accordance with relevant laws and regulations and effective laboratory procedures. Wash and dry hands. The protective gloves selected must comply with EU Directive 89/686/EEC and the EN 376 standard derived from it.
Body protection	Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of hazardous materials at a specific workplace.
Respiratory protection	Where risk assessment indicates that air-purifying respirator are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

Appearance and traits	Status: Transparent liquid Color: light yellow to colorless
Odor	Slight characteristic odor
pH (10% Aqueous solution, 25°C)	6.0~8.0
Active matter content (%)	28.0~32.0
Boiling point / boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 5 / 7	

High/low flammability or explosive limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Density / relative density	No data available
Water soluble	Dissolved in water
Octanol/water partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Stability: This material is stable under normal handling and storage conditions.

Reactivity: No data available

Dangerous reaction: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidants

Dangerous decomposition products: No data available

11. Toxicological information

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage / eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

IARC: No data available

Specific target organ toxicity (one exposure): No data available

Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

Potential health effects


Inhalation: May be harmful if inhaled. This substance is highly destructive to tissues, mucous membranes and upper respiratory tract.

Ingestion: Ingestion is harmful to the human body. Causes burns.

Skin: Harmful through the skin. Causes skin burns.

Eyes: Causes eye burns.

Signs and symptoms after contact

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 6 / 7	

No data available

Additional information

Registration of chemical substances toxicity: No data available

12. Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Potential bioaccumulation

No data available

Mobility in soil

No data available

Evaluation of results of PBT and vPvB

No data available

Other environmental harmful effects

Very toxic to aquatic life.

13. Disposal considerations

Product

Deliver the remaining and non-recyclable solutions to a licensed company.


Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated containers and packaging

Dispose of as unused product.

14. Transport information

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dodecyldimethylamine oxide solution)
Class	9
Package group	III
Environmental hazard	Yes
Special precautions	No data available

Material Safety Data Sheet		
Dodecyl dimethyl amine oxide		
Version:2.0	Revision date: July 10, 2021	
File No.: YS-SDS-031-2	Page: 7 / 7	

15. Regulatory Information

Please note that waste disposal should also meet local regulations.

16. Other Information

The full text of the H-statements mentioned in sections 2.

H303 May be harmful if swallowed.

H314 Causes severe skin burns and eye damage.

The full text of the P-statements mentioned in sections 2.

P260 Do not breathe dust or fumes.

P264 Wash your skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection. (Refer to Section 8 of this Material Safety Data Sheet).

P301+P330+P331 If swallowing: gargle, do not induce vomiting.

P303+P361+P353 If skin (or hair) comes in contact: Immediately remove/take off all contaminated clothing and wash skin/shower with water.

P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. If you wear contact lenses and can easily remove them, take out the contact lenses. Continue to rinse.

P310 Immediately call a POISON CENTER or doctor / physician.

P321 Specific disposal (see first aid instructions provided on this label).

P363 Contaminated clothing can be reused after cleaning.

P391 Collect spillage.

Writing and revising information

Date originally compiled: May 19, 2019

Date of last revision: July 10, 2021

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by our company hereunder are given gratis and we assume no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

END OF DATA SHEET