

Material Safety Data Sheet		
Cocamidopropylamine oxide		
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1. Chemical Product and Company Identification

INCI name: Cocamidopropylamine oxide

CAS No.: 68155-09-9

Chemical structure: RCONH(CH₂)₃N(CH₃)₂→O

Trade name: Yeser® CAO-30

Product application: Commonly used in liquid detergents, personal care products and cosmetics.

Supplier name: GUANGZHOU YESER CHEMICALS CO., LTD

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

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2. Hazards Identification

GHS hazard classification:

Physical	No classification	
Health	Acute toxicity, oral, Category 4	H302: Harmful if swallowed.
	Skin corrosion/irritation, Category 2	H315: Causes severe skin irritation.
	Eye damage/eye irritation, Category 1	H318: Causes serious eye damage.
Environment	Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.

GHS Label elements

Hazardous components	Cocamidopropylamine oxide				
Pictogram					
Signal word	Danger				
Hazard statement	H302: Harmful if swallowed. H315: Causes severe skin irritation. H318: Causes serious eye damage. H400: Very toxic to aquatic life.				

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Precautionary statement	<p>Prevention: P264: Wash your skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release into the ring mirror. P280: Wear protective gloves/protective clothing/eye protection.</p> <p>Response: P12+P312: If swallowed: If you feel unwell, call a detoxification center or see a doctor. P302+P352: If on skin: Wash with plenty of soap and water. 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. P330: Rinse mouth. P319: Collect spillage.</p> <p>Storage: None</p> <p>Disposal: P501: Dispose of contents / container in accordance with local regulations.</p>
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3. Composition/Information on Ingredients

Component	CAS NO.	Percentage %
Water	7732-18-5	68.0~72.0
Cocamidopropylamine oxide	68155-09-9	28.0~32.0

4. First aid Measures

Inhalation: If inhaled, remove person from contaminated area. Allow the affected people to rest. Inhale fresh air, maintain a comfortable sitting position, pay attention to warmth and rest, and seek medical attention if symptoms occur.

Ingestion: NEVER attempt to induce vomiting. If victim is conscious and alert, give 2–4 glasses of milk or water. Do not give anything by mouth to an unconscious person. Always obtain medical attention immediately. Rinse mouth out with water. Show this sheet to the doctor.

Skin contact: Remove all contaminated clothing and footwear. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation ...), obtain medical attention. Show this sheet to the doctor.

Eye contact: Immediately rinse with plenty of running water for a prolonged period whilst

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keeping the eyes wide open (at least 15 minutes). Always obtain medical advice immediately, even if there are no symptoms. Show this sheet to the doctor.

Further information: Place contaminated clothing in a sealed bag or disposal. Use appropriate protective equipment when treating a contaminated person.

5. Fire-fighting Measures

Extinguishing media: Suitable - Alcohol foam, fog or mist, multi-purpose powders or Carbon Dioxide or water spray. Unsuitable - High volume water jet.

Specific hazards: During combustion: Toxic gases are released.

Specific protective equipment for fire-fighters: Do not use a water jet since it may cause the fire to spread. Cool down the containers / equipment exposed to heat with a water spray.

Wear self-contained breathing apparatus for firefighting if necessary.

Specific firefighting methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental Release Measures

Personal precautions: Avoid contact with eyes, skin and respiratory system. Do not breathe steam. Eliminate all sources of ignition. Wear suitable protective gloves, safety glasses, face shield, protective clothing and respiratory protection. Remove all ignition sources. Ventilate leak area. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Collect the spill with a cofferdam. Do not discharge into drains or rivers.

Methods for Cleaning up: Prohibited: Do NOT spray water into packaging which has been damaged or overturned.

Recovery: Recover the product by vacuuming / shoveling or sweeping. Collect up the spilled product and place it in a suitably labeled spare container. Keep the recovered product for subsequent disposal.

Neutralization: Absorb spillage with sand or inert absorbent. In case of large spillages contact the local authority.

Cleaning / Decontamination: Wash non-recoverable remainder with large amounts of water. Recover the cleaning water for subsequent disposal.

Disposal: Dispose of all contaminated materials in accordance with current regulations.

7. Handling and storage

Handling

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Technical measures: Vapor extraction at source. Flameproof ventilation, electrical equipment and lighting. Earth the equipment. All metallic parts in contact with the product must be earthed. Use NON-sparking tools.

Precaution measures: Avoid forming aerosols. Avoid the build-up of electrostatic charge. Prevent the build-up of electrostatic charge. Safe handling advice: Handle and use in accordance with good occupational hygiene and safety practice.

Storage: Technical measures: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions: A storage temperature between 4–40°C is recommended. Store in a well-ventilated area, away from ignition sources and protected from humidity. Do not store with acids and strong oxidizing agents.

Packaging: Product must only be kept in the original packaging.

Packaging materials: Plastic materials are recommended.

8. Exposure controls/personal protection

Engineering measures: Always update the workplace air

Control parameter:

Occupational exposure limits: No data available.

Monitoring procedures: Ensure that the airborne concentration is below the occupational exposure limit.

Respiratory protection: If exposure is likely to exceed the occupational exposure limit: Filtering respiratory protective device with a specific gas canister.

Hand protection: Protective gloves must be chosen according to the function of the work station
Eye protection: Safety spectacles and a face shield.

Skin and body protection: Wear suitable protective clothing, gloves and eye/face protection.

Work habit control: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and / or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with the material.

9. Physical and chemical properties

Appearance(25°C)	Colorless to pale yellow transparent liquid
Odor	Characteristic smell

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Odor threshold	No data available
pH value (10% aqueous solution)	6.0~8.0
Melting point / freezing point	No data available
Initial Boiling Point and Boiling Point rang	>100°C
Flash point	Not applicable (aqueous solution)
Evaporation rate	No data available
Flammability limit	No data available
Explosive limit	No data available
Vapor Pressure	No data available
Solubility	Dissolved in water
Vapor density (Air=1)	No data available
Specific gravity(Water=1)	No data available
Density (Water=1)	No data available
Octanol/water partition coefficient	Not applicable
Automatic ignition temperature	No data available
Decomposition temperature	No data available
Molecular weight	Approximately 318 g/mol
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular formula	RCONH(CH ₂) ₃ N(CH ₃) ₂ →O

10. Stability and reactivity

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

Incompatible materials: Strong oxidizing agent.

Conditions to avoid: Heat, flame or sparks.

Hazardous decomposition products:

On combustion or on thermal decomposition (pyrolysis) releases: Oxides of Carbon and oxides of Nitrogen.

11. Toxicological information

Acute toxicity: No data available

Acute inhalation toxicity: No data available

Acute toxicity-skin contact: No data available

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Acute toxicity (other routes): No data available

Skin irritation: No data available

Eye irritation: No data available

Allergenicity: No data available

Repeated poisoning toxicity: No data available

STOT-Single exposure: No data available.

STOT-Repeated exposure: No data available.

Carcinogenicity: No data available

Genotoxicity in vitro: No data available

Genotoxicity in vivo: No data available

Reproductive toxicity: No data available.

12. Ecological information

Ecotoxicity: Hazard to the aquatic environment-Chronic hazard: Hazard category 1-Very toxic to aquatic life with long lasting effects.

Toxicity to Daphnia magna and other aquatic invertebrates: No data available.

Toxicity to Fish: No data available.

Toxicity to Algae: No data available.

Persistence and degradability: Readily biodegradable.

Biodegradability: No data available.

Bioaccumulation: No data available.

Migration: No data available.

13. Disposal considerations

Residues Prohibition = Discharging waste into rivers and drains is forbidden.

Destruction / Disposal = Dispose of in accordance with relevant local regulations.

Contaminated packaging: Prohibition = Following use do NOT pierce or burn the packaging.

Do not dispose of the product at a rubbish tip.

Decontamination / Cleaning = Completely empty the packaging prior to decontamination. Degas followed by aeration. Carefully drain and then steam clean. Do not enter tanks or containers before they have been cleaned and de-gassed.

Destruction / Disposal = Recycle following cleaning or dispose of at an authorized site.

Further information: In accordance with RID / ADR regulations, containers or tankers which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs.

Note: The user's attention is drawn to the possible existence of local regulations regarding disposal.

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14. Transport information

Ground transportation: Not classified as dangerous good under transport regulations.

Shipping IMDG: Not classified as dangerous good under transport regulations.

Air transport IATA DGR: Not classified as dangerous good under transport regulations.

15. Regulatory Information

Risk classification: China regulations on flammable substances: is not subjected to the regulations on flammable substances.

Water Hazard Class: No data is available on this product.

16. Other Information

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

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

P264 Wash face, hands and any exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

P301+P312 If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 If on skin: Wash with plenty of soap and water.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P330 Rinse mouth.

P391 Collect spillage.

P501 Dispose of contents / container in accordance with local regulations.

Writing and revising information

Date originally compiled: June 19, 2017

Date of last revision: May 1, 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

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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