

Ethylene Bis Oleamide
MSDS

Jiangxi Zhilian New Materials Co., Ltd.



MATERIAL SAFE DATA SHEET

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Product Name: Ethylene Bis Oleamide

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1 Product and company Identification

Chinese Name: (Z,Z)-N,N' -1,2-乙二亚基双-9-十八烯酰胺, 乙撑双油酸酰胺

English Name: Ethylene Bis Oleamide

Other Names: 亚乙基二油酰胺、EBO

Structural formula: $C_{38}H_{72}N_2O_2$

Molecular formula:

CAS No: 110-31-6

Risk Code: R36/37/38 (Slightly irritating to eyes, respiratory tract and skin)

Manufacturer: Jiangxi Zhilian New Materials Co., Ltd

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2 Main composition, Traits and Uses

Appearance and traits: Bead or powder.

Physical and chemical properties: This product is a light yellow waxy solid with a flash point of about 296 ° C. It is a non-ionic surfactant. It is stable in acid, alkali and aqueous media, and is insoluble in most solvents at room temperature, allowing it to be used in food containers and packaging materials. Ethylene bis oleamide is a synthetic wax. Used as lubricant, brightener, slip agent, anti-sticking agent and mold release agent in plastics, antistatic agent of cellophane.

Applications:

1. Can be used as anti-sticking agent and opening agent for EVA and PVC, more suitable for anti-sticking agent of EVA hot melt adhesive.
2. Can be used as a lubricant, anti-sticking agent and release agent for PE, PP, PS, AS,



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ABS, PA, PET, PC, etc .

3. Can be used as a release agent and internal lubricant for acrylic rubber.
4. It can be used as a dispersant and coupling agent for pigments and fillers. This product will have a strong affinity with inorganic pigments or fillers, allowing it to adhere to the surface of particles to achieve the purpose of modifying pigments or fillers.
5. Auxiliary nucleation transparent agent. This product is used in polyolefin, polyoxymethylene and polyamide resins, which can shorten the nucleation time and promote the thinning of the resin structure, thereby improving the mechanical properties and transparency of the product.
6. This product can also improve the heat resistance, weather resistance and antistatic properties of polyester and polyamide fibers.
7. Can be used as anti-sticking agent, extrusion aid and mold release agent for chlorohydrin rubber, fluorinated rubber and nitrile rubber.

3 Risk Overview

This product is non-toxic and non-hazardous. Powdered products may cause slight irritation to eyes and skin due to their small particle size.

Health hazards: At present, no information on occupational poisoning has been reported.

Environmental hazard: no data

Explosion hazard: This product is not flammable.

4 First Aid Measures



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Skin contact: Remove contaminated clothing and rinse immediately with running water.

Eye contact: Lift eyelids and rinse with running water or saline. Seek medical attention.

Ingestion: Do not induce vomiting. Get medical attention quickly.

Inhalation: Remove quickly from the scene to fresh air. Keep your breath open. If breathing is difficult, give oxygen. Seek medical attention.

5 Fire-fighting Measures

Hazardous characteristics: Powders and air can form explosive compounds. In case of contact with open flames, high heat or oxidants, deflagration may occur.

Hazardous combustion products: carbon monoxide, carbon dioxide, nitrogen oxides.

Fire extinguishing methods: Firefighters must wear gas-bearing respirators, full body firefighting clothing, and extinguish the fire in the upwind direction.

As far as possible, move the container from the fire to an open place.

If the container in the fire scene has changed color or made a sound from the safety pressure relief device, it must be evacuated immediately.

Isolate the accident scene and prohibit the entry of unrelated persons. Contain and handle fire water to prevent environmental pollution.

Fire extinguishing agent: use water spray, dry powder, foam or carbon dioxide fire extinguishing agent to extinguish the fire.

Avoid using direct current water to extinguish the fire. Direct current water may cause flammable liquids to splash and spread the fire.

6 Leakage Emergency Treatment



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Operator protection measures, protective equipment and emergency handling procedures:

It is recommended that emergency personnel wear gas-bearing respirators, anti-static clothing, and rubber oil-resistant gloves.

Do not touch or cross leaks.

All equipment used in the operation should be grounded.

Cut off the source of the leak as much as possible.

Eliminate all ignition sources.

According to the influence area of liquid flow, steam or dust diffusion, a warning zone is defined, and irrelevant personnel are evacuated from the side wind and upwind to the safe area.

Environmental protection measures:

Contain leaks to avoid polluting the environment. Prevent leaks from entering sewers, surface water and groundwater.

Containment and removal methods of spilled chemicals and disposal materials used:

Small leaks: Collect leaking liquid in sealable containers as much as possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. It is forbidden to rush into the sewer.

Large amount of leakage: constructing dikes or digging pits to contain. Close the drainage pipe. Cover with foam to suppress evaporation. Use an explosion-proof pump to transfer to tank truck or special collector, and recycle or transport to waste disposal site for disposal.

7 Handling and Storage

Operation notes:

Operators should undergo special training and strictly abide by the operating



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regulations.

Operation and disposal should be carried out in places with local ventilation or full ventilation facilities.

Avoid contact with eyes and skin and inhalation of steam.

Refer to Section 8 for personal protection measures.

Keep away from fire and heat, smoking is strictly prohibited in the workplace.

Use explosion-proof ventilation systems and equipment.

If canning is required, the flow rate should be controlled and there is a grounding device to prevent the accumulation of static electricity.

Avoid contact with prohibited substances such as oxidants (for prohibited substances see section 10).

Handle lightly when handling to prevent damage to packaging and containers.

Empty containers may be harmful residues.

Wash hands after use, and do not eat or drink in the workplace.

Equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Precautions for storage:

Store in a cool, ventilated warehouse.

The storage temperature should not exceed 37 ° C.

It should be stored separately from oxidants and edible chemicals, and mixed storage is prohibited (see section 10 for prohibited ingredients).

Ethylene bisoleamide safety technical instructions

Keep container tightly closed.

Keep away from fire and heat.

The warehouse must be equipped with lightning protection equipment.

The exhaust system should be equipped with a grounding device to remove static electricity.



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Use explosion-proof lighting and ventilation settings.

It is forbidden to use equipment and tools that easily generate sparks.

The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

8 Protective Measures

Workshop hygiene standards:

China MAC (mg/m³): No standard

Russian MAC (mg/m³): no standard

US TVL-TWA: No standard

US TLV-STEL: No standard

engineering control:

It is recommended that the workplace be separated from other workplaces.

Closed operation to prevent leakage.

Strengthen ventilation.

Set up automatic alarm devices and accident ventilation facilities.

Set up emergency evacuation channels and necessary diarrhea areas.

Set red area warning lines, warning signs and Chinese warning instructions, and set up a communication alarm system.

Provide safety shower and eyewash equipment.

Respiratory protection: dust masks (full face masks) must be worn when they may be exposed to dust. An air respirator should be worn during emergency rescue or evacuation.

Eye protection: Protection has been made in respiratory system protection.

Body protection: Wear work clothes with anti-poison penetration.

Hand protection: Wear rubber oil resistant gloves.

Other protection: Smoking, eating and drinking are prohibited on the job site. After work, take a shower. Maintain good hygiene habits.



9 Physical and Chemical Properties

Flash point (°C): About 296 ° C

Melting point (°C): 101-120°C

Boiling point (°C): 728.5°C at 760 mmHg

Density: 0.899

Lower explosion limit (%): no data

Upper explosion limit (%): no data

Relative vapour density (air = 1): No data available.

Saturated air pressure: no data

Heat of combustion (kJ/mol): no data available

Critical temperature Tc (°C): no data

Critical pressure Pc (Mpa): no data

Solubility (solubility g/100g): insoluble in water.

10 Stability and Reactivity

Stability: Stable and stable to use at normal ambient temperatures.

Risk of aggregation: no aggregation

Conditions to avoid contact: electrostatic discharge, heat, humid air, sunlight, etc.

Contraindication: water, strong alkali, strong acid, strong oxide.

11 Toxicological Information

Acute toxicity:

Oral: Not available

Inhalation: Not available

Percutaneous: Not available

Skin irritation or corrosion: No information available.



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Eye irritation or corrosion: No information available.

Respiratory or skin allergies: No information available.

Germ cell mutation: no information available.

Carcinogenicity: Not available.

Reproductive toxicity: No information available.

Specific target organ toxicity-one exposure: no information available.

Specific target organ system toxicity-repeated exposure: No information available.

Inhalation hazard: No information available.

12 Ecological Information

Other harmful effects: no data

13 Discard

Waste chemicals:

Recycle as much as possible.

If it cannot be recycled, use incineration methods for disposal.

This product must not be disposed of by discharge into the sewer.

Contaminated packaging:

Return the container to the manufacturer or dispose of it according to national and local regulations.

Disposal considerations:

Please refer to relevant national and local regulations before disposal.

Refer to Section 8 for safety precautions for disposal personnel.

14 Transport Information

Transportation: It is a non-hazardous chemical and is stored and transported in accordance with general chemical regulations.

Packing method: Packed in plastic lining compound bag, net weight 20Kg or 25Kg per bag.

Transportation precautions: The packaging should be complete at the time of



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shipment and the loading should be secure. During transportation, ensure that the container does not leak, does not collapse, does not fall, and is not damaged. It is strictly forbidden to mix and transport with oxidants and food chemicals. During transportation, it should be protected from exposure, rain and high temperature. The transport vehicle must be thoroughly cleaned.

15 Regulatory Information

Regulatory Information: Regulations for the Safety Management of Chemical Dangerous Goods (promulgated by the State Council on February 17, 1987), Regulations for the Administration of Chemical Hazardous Materials Safety Regulations (Hua Fafa [1992] No. 677), Regulations for the Safe Use of Chemicals in the Workplace ([1996] Labor Department issued No. 423) and other regulations have made corresponding provisions on the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods.

16 Other Information

Writing department: Production Technology Department

Time: March 5, 2021

Data Verify Company: Jiangxi Zhilian New Materials Co., Ltd