

Octadecyl Erucamide
MSDS

Jiangxi Zhilian New Materials Co., Ltd.



MATERIAL SAFE DATA SHEET

Jiangxi Zhilian New Materials Co., Ltd.

2021.3.5

Product Name: Octadecyl Erucamide

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1 Product and company Identification

Chinese Name: N-十八烷基-13-二十二酰胺; N-十八烷基-芥酸酰胺; 十八烷基芥酸酰胺

English Name: Octadecyl Erucamide

Structural formula: $C_{40}H_{79}NO$

Molecular formula: 590.06

CAS No: 10094-45-8

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

Security code: S26; S37 / 39

Manufacturer: Jiangxi Zhilian New Materials Co., Ltd

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2 Main composition, Traits and Uses

Appearance and traits: Waxy solid, White Bead or powder.

Physical and chemical properties: It has good lubricity and medium smoothness, and has good thermal stability. It can be used in the processing of plastics (resin) over 310 °C. The amount is increasing with the continuous growth of high temperature resistant polymers. Process is more useful. It will migrate on the surface layer of the polypropylene copolymer, but will not migrate on the core layer of the polypropylene homopolymer. It is allowed to be used in food containers and packaging materials.

Applications:

It can be used as lubricant, anti-sticking agent and release agent for resin including polyolefin, nylon (PA) and polyester(PET, PBT) ; It is more applicable to compound



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and multilayer co-extrusion production process, as well as calendering package plastic sealed package ; It needs appropriate amount use based on the production requirement on PE, PP, PS, ABS, PA, PS, PET, PC and PVDC; Inside release agent and slip agent for acrylic rubber; It is used as effective anti-sticking and slip agent on cellulose, polyolefin, ethylene/propylene, ethylene/ vinyl copolymer, polyethylene polymers and copolymers; used as high temperature resistance release agent, lubricant, friction regulator agent(friction coefficient can be controlled between 0.25-0.45) for Engineering plastics; Excellent release agent for metallocene polyolefin.

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

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.



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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

Dangerous characteristics: combustible in case of open flame or high heat. If the dust concentration in the space is too high (at a certain concentration), there will be an explosion hazard when encountering Mars.

Hazardous combustion products: carbon monoxide, carbon dioxide, nitrogen oxides. When burning, it will produce irritating fumes.

Fire extinguishing method: Move the container from the fire site to an open place as much as possible.

Extinguishing media: water spray, foam, dry powder, carbon dioxide and sand.

Unsuitable extinguishing agent: Do not directly spray water into a large amount of burning molten liquid.

6 Leakage Emergency Treatment

Emergency treatment: Isolate the leaked contaminated area and restrict access. Cut off the ignition source. It is recommended that emergency personnel wear dust masks (full face masks) and anti-virus clothing. Collect in a dry, covered container with a clean shovel and transfer to a safe place. If there is a large amount of leakage, collect and recycle or transport to waste disposal site for disposal.

Environmental maintenance: The product is insoluble in water and will float on the water surface to avoid entering the sewer pipe or water surface.



7 Handling and Storage

Operation notes:

Closed operation, provide good natural ventilation conditions. Operators must undergo special training and strictly abide by the operating regulations. It is recommended that operators wear self-priming filter dust masks, chemical safety protective glasses, anti-poison penetration work clothes, and chemical-resistant gloves. Keep away from fire and heat, smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid contact with oxidants and acids. Handle lightly when handling to prevent damage to packaging and containers. Equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment. Empty containers may be harmful residues.

Precautions for storage:

Store in a cool, ventilated warehouse. Keep away from fire and heat. should be kept away from oxidizer, do not store together. Equipped with the appropriate variety and quantity of fire equipment. The storage area should be equipped with suitable materials to contain the leakage. When the ambient temperature exceeds 35 ° C, the product may cause caking or discoloration.

8 Protective Measures

Operation control: follow general chemical operation precautions.

Exposure limit: No exposure limit index is set.

Engineering control: Provide good natural ventilation conditions.

Respiratory protection: When the dust concentration in the air exceeds the standard, it is recommended to wear a self-priming filter dust mask.

Eye protection: Avoid contact between the material and eyes and wear chemical safety protective glasses.



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

Hand protection: Wear chemical 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): $\geq 400^{\circ}\text{C}$

Melting point (°C): 66-75°C

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



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Inhalation: Not available

Percutaneous: Not available

Skin irritation or corrosion: No information available.

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



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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 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