

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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1. IDENTIFICATION

Product Name: Erucamide

Synonyms: (Z)-13-Docosenamide

Chemical Formula: $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_{11}\text{CONH}_2$

Formula: $\text{C}_{22}\text{H}_{43}\text{NO}$

Chemistry Class: Amines

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APPLICATION

Fatty acid amides are nonionic substances which have a strong tendency to reduce friction on various surfaces by forming a layer on surfaces. This coating action may be attributed to their hydrophobic character and strong hydrogen bonding. Primary, secondary, and bisamides are widely used as lubricating or slip agents and alkanolamides. Their ethoxylated counterparts are commonly used as surfactants in personal care and detergent applications.

Typical uses of fatty acid amides include lubricants for synthetic resins (polyethylene, polypropylene, etc.), anti-blocking agents, mold release agents, printing ink additives, and pigment/dye dispersants. Rubber processing aid.

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT Erucamide

CAS# 112-84-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

USUAL HAZARDS ASSOCIATED WITH ORGANIC DUSTS. THE POSSIBILITY OF EXPLOSION EXISTS UNDER DUSTY CONDITIONS. AVOID DUSTING WHEN HANDLING AND AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK AND FLAME).

4. FIRST AID MEASURES

Swallowing

Obtain medical attention.

Skin

Wash skin with soap and water. For contact with hot molten material, cool burned skin area by immersing in cold water or apply cold water.

Inhalation

Remove to fresh air.

Eye contact

Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

5. FIRE-FIGHTING MEASURES

Flash point: 230 °C

Special fire fighting procedures

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media

Suitable: Extinguish with:

- dry chemical
- water spray
- CO₂
- foam

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. In case of occurrence of dust respiratory protective equipment required.

Environmental precautions

This product is insoluble in water and will float on the surface. Prevent from entering sewer system or surface water.

Methods for cleaning up

Avoid dispersion of dust.

Eliminate sources of ignition.

Sweep up and collect in a suitable container for disposal.

Sweep up using non-sparking equipment.

Observe government regulations.

7. HANDLING AND STORAGE

HANDLING**Handling precautions**

Avoid breathing dust. Avoid dispersion of dust to reduce fire and explosion potential. Keep container tightly closed.

STORAGE

Storage requirements

Store at ambient temperature. Repair all broken bags immediately.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory protection

Use NIOSH/MSMA certified dust mask and/or respirator where appropriate.

Hand protection / protective gloves

Neoprene

Eye protection

Monogoggles

Skin protection

Rubber or plastic apron

ENGINEERING CONTROLS

Ventilation

Adequate ventilation to keep dust level below TLV.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Powder / Beads
Color	Off-white
Odor	No Odor / Slight fatty

OTHER PROPERTIES

Boiling point	> 287 °C
Melting point	78 - 84°C
Density	~ 0.88 g/cm ³
Vapor pressure	Negligible
Vapor density (air=1)	Non Volatile
Solubility in water	Insoluble
Flash point	230 °C
Percent volatiles	0 %(m)

10. STABILITY AND REACTIVITY

Stability: Stable.

Stability - Conditions to avoid

Stable under normal conditions.

Incompatible materials

Strong oxidizing agents.

Hazardous combustion products

Burning can produce the following combustion products:

Carbon monoxide.

Carbon dioxide.

Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

GENERAL

No information available.

SWALLOWING

Acute effects

Low acute toxicity.

Test results

Acute toxicity: LD50 - Rat

Result: > 15,000 mg/kg

SKIN ABSORPTION

Acute effects

Low acute toxicity.

INHALATION

Acute effects

Dust may cause irritation of the respiratory tract.

SKIN CONTACT

Acute effects

May cause slight irritation.

EYE CONTACT

Acute effects

May cause slight irritation.

12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

Additional information

No results from ecotoxicological tests are available.

13. DISPOSAL CONSIDERATIONS

General: It is our opinion this product is not a RCRA hazardous waste. It is the generator's responsibility to make their own determination as to the RCRA status of waste they generate.

Non-cleaned packages

Subject completely emptied paper bags to paper recycling.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

Chemical Dangerous Goods Safety Management Regulations (Chinese Government Announced on February 17, 1987);

Implementation of Chemical Dangerous Goods Safety Management Regulations and Rules (化劳发 [1992] No. 677, the Chinese Government);

Workplace safe use of chemicals (劳部发 [1996] 423).

CHEMICAL INVENTORY

Canada: This product is on the DSL.

Europe: This product is on the EINECS inventory.

206-103-9

United States: This product is on the TSCA inventory.

Australia: This product is on the AICS inventory.

China: This product is on the IECSC Inventory.

Japan: This product is on the ENCS inventory.

Korea: This product is listed on the Existing Chemicals List (ECL).

Philippines: This product is on the PICCS.

16. OTHER INFORMATION

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