

# **GELEST, INC.**

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MATERIAL SAFETY DATA SHEET

**EMERGENCY TELEPHONE** CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: ERBIUM METHOXYETHOXIDE - 15-16% AKE277

CHEMICAL NAME: ERBIUM III METHOXYETHOXIDE SOLUTION

SYNONYMS: ERBIUMIUM TRI(METHOXYETHOXIDE)

CHEMICAL FAMILY: RARE EARTH ALKOXIDE

FORMULA: C<sub>9</sub>H<sub>2</sub><sub>1</sub>O<sub>6</sub>Er

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY:1

## **INGREDIENTS**

**IDENTITY** CAS NO. % TLV

**METHOXYETHANOL** 

>75 25ppm (skin) 109-86-4 **ERBIUM III METHOXYETHOXIDE** 367509-45-3 <25 not established

#### PHYSICAL DATA

Freezing Point: <0°C Boiling Point: 124-5°C (initial)

Vapor Pressure, 25°: not determined Specific Gravity: 1.00-1.02

Vapor Density: 2.6-2.7 Solubility in water: reacts % volatiles >75% Evaporation rate: NA

Other: NA Molecular Weight: 392.52

Appearance & Color: Light pink to orange-amber liquid; mild odor

#### **FIRE & EXPLOSION DATA**

Flash Point, TCC: 48°C (118°F) Autoignition Temp.: 288° (methoxyethanol)

Flammability Limits-(methoxyethanol) LEL: 2.5% UEL: 19.8%

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale

vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

# -1-(AKE277)



#### **ENVIRONMENTAL INFORMATION**

Spill response: Cover spill with absorbent material. Transfer to a suitable container for disposal.

Recommended Disposal: Dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

#### **HEALTH HAZARD DATA**

Eye Contact: May cause immediate or delayed severe eye irritation. The onset of irritation may not occur until several hours after exposure.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of metal alkoxides may irritate the respiratory tract. Methoxyethanol can cause headaches, dizziness, drowsiness, irritation of eyes, tremor, ataxia, gastrointestinal disturbance, or weight loss. Methoxyethanol is listed as a potential mutagen.

Oral Toxicity: Not Determined. Methoxyethanol, a hydrolysis product, toxicity is reported: oral-rat, LD50: 2460 mg/kg

Chronic Toxicity: There are no known chronic effects related to this compound.

Methoxyethanol, a hydrolysis product, is known to have a chronic effect on the central nervous system.

#### SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

#### REACTIVITY DATA

Stability: Stable

Conditions to avoid: Avoid water, moist air. Incompatibility (materials to avoid): Oxidizers.

Hazardous decomposition products: Organic acid vapors.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemcial Abstract Service Registration Number Gelest, Inc. © 2008



#### SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended. Respiratory Protection: If exposure exceeds TLV, a NIOSH approved organic vapor-type respirator should be worn.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses. Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers. Protect against sunlight.

## **TRANSPORTATION**

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.

(CONTAINS METHOXYETHANOL)

DOT HAZARD CLASS: FLAMMABLE MATERIAL

DOT LABEL: FLAMMABLE LIQUID

DOT ID No: UN1993 PG: III

Prepared by safety and environmental affairs MSDS ISSUE DATE AKE277: 1/29/13 SUPERSEDES: 10/8/02

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