

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **ALUMINUM III ETHOXYETHOXYETHOXIDE, 15% - AKA061**

CHEMICAL NAME: ALUMINUM III ETHOXYETHOXYETHOXIDE, 15% in  
ethoxyethoxyethanol

SYNONYMS: ALUMINUM ETHOXYDIETHYLENEGLYCOLATE

CHEMICAL FAMILY: ALUMINUM ALCOHOLATE

FORMULA: C<sub>18</sub>H<sub>39</sub>O<sub>9</sub>Al

HMIS CODES HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
ALUMINUM III ETHOXYETHOXYETHOXIDE	70815-16-6	>12	not established
ETHOXYETHOXYETHANOL	111-90-0	<90	not established

**PHYSICAL DATA**

Boiling Point: 202°-initial

Specific Gravity: 1.01

Vapor Density: NA

% volatiles: >75

Molecular Weight: 426.47

Appearance & Color: Straw to pale yellow liquid; mild odor

Melting Point: not determined

Vapor Pressure @ N/A

Solubility in water: reacts

Evaporation rate: NA

Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC: 96°C (205°F)

Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid water spray as s-butanol will be generated. 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.

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## ENVIRONMENTAL INFORMATION

Spill response: Utilize non-flammable absorbent, then sweep material and transfer to a suitable container for disposal.

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

## HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: not determined

### 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. Administer oxygen if needed. 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: Material decomposes slowly in contact with air by reaction with moisture, liberating ethoxyethoxyethanol and aluminum hydroxide. Avoid contact with water.

Hazardous decomposition products: Organic acid vapors and aluminum oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.

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 and industrial use only.

Storage and Handling: Store in sealed containers. Do not allow vapors or dust to accumulate in work areas.

## TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: Not Regulated

DOT LABEL: Not Required

DOT ID No: Not Required

Prepared by safety and environmental affairs

ISSUE DATE AKA061: 9/16/02

SUPERSEDES: 1/22/96

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