

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ALUMINUM ETHOXIDE - AKA060**  
CHEMICAL NAME: ALUMINUM ETHOXIDE  
SYNONYMS: ALUMINUM ETHYLATE, ALUMINUM TRIETHOXIDE  
CHEMICAL FAMILY: ALUMINUM ALCOHOLATE  
FORMULA: C<sub>6</sub>H<sub>15</sub>O<sub>3</sub>Al  
HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
ALUMINUM III ETHOXIDE	555-75-9	>95	not established 10mg/m <sup>3</sup> total dust

**PHYSICAL DATA**

Boiling Point: 189°C @ 3mm	Melting Point: 157-9°C
Specific Gravity: 1.14	Vapor Pressure: not determined
Vapor Density: NA	Solubility in water: reacts
% volatiles: <5%	Evaporation rate: NA
Molecular Weight: 162.17	Other: N/A
Appearance & Color: White powder, characteristic odor of ethanol	

**FIRE & EXPLOSION DATA**

Flash Point, COC: NA                      Autoignition Temp.: not determined  
Flammability Limits- LEL: NA    UEL: NA

Aluminum ethoxide is a combustible solid.

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.

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## ENVIRONMENTAL INFORMATION

Spill response: 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 ethanol 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 dust to accumulate in work areas.

## TRANSPORTATION

DOT SHIPPING NAME: None required

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs      ISSUE DATE AKA060: 9/16/01  
SUPERSEDES: 4/21/95

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