

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **ALUMINUM FORMATE, trihydrate - CXAL045**

CHEMICAL NAME: ALUMINUM FORMATE, trihydrate

SYNONYMS: FORMIC ACID, ALUMINUM SALT; ALUMINUM TRIFORMATE, trihydrate

CHEMICAL FAMILY: ALUMINUM COMPOUND

FORMULA: $C_3H_3O_6Al.3H_2O$

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
ALUMINUM FORMATE, trihydrate	7360-53-4	>95	not established (OSHA PEL, nuisance dust: 15mg/m ³)

PHYSICAL DATA

Boiling Point: not determined

Specific Gravity: >1

Vapor Density: NA

% volatiles: <1

Molecular Weight: 162.03/216.28

Appearance & Color: White to pale yellow powder, very slight odor

Melting Point: not determined

Vapor Pressure: not determined

Solubility in water: not determined

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: NA

Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: 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-(CXAL045)

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: Strong oxidizers.

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

An explosion of an aqueous solution of aluminum formate after heating in air has been reported.

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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 use only.

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

TRANSPORTATION

DOT SHIPPING NAME: COMBUSTIBLE SOLID, NOS

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL: NONE REQUIRED

DOT ID No: NONE REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE CXAL045: 8/8/05

SUPERSEDES: none

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