



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum Sulfate**
PRODUCT NUMBER: 03222
CAS NUMBER: 7784-31-8
SYNONYMS: Dialuminum trisulfate, Aluminum sulfate octadecahydrate

MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H318	Causes serious eye damage
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Precautionary Phrases

P280	Wear protective gloves/protective clothing/face protection/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

HMIS CLASSIFICATION:

Health: 2 Flammability: 0 Reactivity Hazard: 0 Personal: E

NFPA RATING:

Health: 2 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: May be harmful if absorbed through skin. May cause skin irritation.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Al}_2\text{O}_3 \cdot 18\text{H}_2\text{O}$

Molecular Weight: 666.43

CHEMICAL NAME	CAS#	%
Aluminum Sulfate, Granular FCC	7784-31-8	>98

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: In case of eye contact, rinse with plenty of water and seek medical attention.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

INHALATION: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Do NOT induce vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use appropriate media for adjacent fire. Cool containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides and aluminum oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains. Any release to the environment may be subject to a federal, national, or local reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and place in suitable containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and clean up materials in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dust and aerosols.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Aluminum Sulfate	2 mg/m ³	PEL	OSHA
	2 mg/m ³	TLV	ACGIH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

EYE PROTECTION: Wear chemical safety glasses or goggles.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

RESPIRATOR: If exposure levels are excessive, use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers, and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White crystals

MOLECULAR WEIGHT: 666.43

BOILING POINT: No data available

MELTING POINT: 86.5° C

SPECIFIC GRAVITY: 1.62 gm/ml

VAPOR PRESSURE: Not available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Sulfur oxides and aluminum oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat - >9,000 mg/kg

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen.

MUTAGENIC EFFECTS: Genotoxicity in vivo – mouse – Intraperitoneal Cytogenetic analysis. Genotoxicity in vivo – mouse – Intraperitoneal Sister chromatid exchange.

TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good

SECTION 15 REGULATORY INFORMATION

TSCA: Listed on the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA 302/304: Not listed

SARA 311/312: Aluminum Sulfate

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Not listed

SECTION 16 OTHER INFORMATION

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