



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum Sulfate Hydrate**

PRODUCT NUMBER: 1046-1

CAS NUMBER: 17927-65-0

SYNONYMS: Dialuminum sulfate hydrate

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger.

Hazard Statements

H290	May be corrosive to metals
H314	Causes severe skin burn and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary Phrases

P264	Wash skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / Doctor
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.

POTENTIAL HEALTH EFFECTS: Ingestion and inhalation

EYE CONTACT: May cause irritation of the eyes. Rinse out with plenty of water. Immediately seek medical attention

SKIN CONTACT: May cause slight to mild irritation of the skin.

INHALATION: May be irritating to the nose, mucous membranes, and respiratory tract.

INGESTION: Immediately make victim drink water.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Al}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$

Molecular Weight: 342.15 (anhy.)

CHEMICAL NAME	CAS#	%
Aluminum Sulfate Hydrate	17927-65-0	99.99

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistants in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Was affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit toxic fumes of sulfur oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment.

ENVIRONMENTAL PRECAUTIONS: Not available. Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not breathe dust. Wear suitable personal protective equipment and respiratory equipment.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container in a dry area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical-resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless crystal

MOLECULAR WEIGHT: 342.15 (anhy.)

MELTING POINT: 86.5° C

SPECIFIC GRAVITY: 1.69

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

BOILING POINT: No data

VAPOR PRESSURE: Not applicable

SOLUBILITY: Solubility in water 86.9 g/100 cc

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Contact with moisture

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Sulfur oxides

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: LD50 Oral – Rat – male and female – 2,000 mg/kg

Skin – Rabbit no skin irritation after 4 h. Eye – Rabbit; results Irreversible effects on the eye

CARCINOGENIC EFFECTS: No data

MUTAGENIC EFFECTS: Not data

TETRATOGENIC EFFECTS: No data

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

SECTION 12 ECOLOGICAL DATA

No information available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous

SECTION 15 REGULATORY INFORMATION

TSCA: Listed; All substances listed in the TSCA inventory – No substances are Significant to New Use Rule or subject to TSCA 12(b) export notification requirements.

SARA 311/312: Acute Health Hazard / Chronic Health Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

MASSACHUSETTS RIGHT TO KNOW: Aluminum sulfate hydrate

PENNSYLVANIA RIGHT TO KNOW: Aluminum sulfate hydrate

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREVIOUSLY PREPARED: 01/14

REVISION DATE: 08/26

REVISION SUMMARY: Removed fax number. All other details in this document about this product have remained unchanged. Revisions made by EHS 08/06/2026 EHS/SDS DEPT.

