



SAFETY DATA SHEET

Aluminum Sulfate

SDS / MSDS Summary - OSHA HCS 16-Section Format | For Industrial Manufacturing Use

SECTION 1: IDENTIFICATION

Product Identifier	Aluminum Sulfate
Manufacturer / Distributor	BASEKİM KİMYASAL ÜRÜNLER İÇ VE DIŞ TİC. LTD. ŞTİ.
Company Address	İLKBAHAR MAH. FAHREDDİN PAŞA SK. NO: 6 ÇANKAYA/ANKARA
Company Phone	+903125147055
Emergency Phone Number	+903125147055
Recommended Use	Industrial manufacturing
Restrictions on Use	For professional use only

SECTION 2: HAZARD(S) IDENTIFICATION

SIGNAL WORD DANGER	HAZARD STATEMENTS H318: Causes serious eye damage. H315: Causes skin irritation. H335: May cause respiratory irritation.
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GHS Classification	Serious eye damage / eye irritation Category 1; Skin irritation Category 2; Specific target organ toxicity - single exposure Category 3 (respiratory irritation).
GHS Pictograms	Corrosion; Exclamation Mark.
Precautionary Statements	Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Wear protective gloves, protective clothing, eye protection, and face protection. Use only with adequate ventilation.
Response	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 or doctor. IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice.
Other Hazards	Dust may cause mechanical irritation. Product may be corrosive to some metals in aqueous solution.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Typical Concentration / Identifier
Aluminum Sulfate	10043-01-3	Principal substance; commercial grades may be anhydrous or hydrated.
Water of Hydration / Moisture	7732-18-5	May be present depending on product grade.

SECTION 4: FIRST-AID MEASURES

Eye Contact	Immediately rinse cautiously with clean water for at least 15 minutes, lifting eyelids. Remove contact lenses if present and easy to do. Seek immediate medical attention.
Skin Contact	Remove contaminated clothing. Wash affected area with plenty of water and soap. Get medical advice if irritation persists.
Inhalation	Move person to fresh air and keep comfortable for breathing. If symptoms such as coughing, irritation, or breathing difficulty occur, seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Give water if the person is conscious. Seek medical advice.
Important Symptoms / Effects	Acute: severe eye irritation or damage, skin irritation, respiratory tract irritation, coughing, throat irritation. Delayed effects may include persistent eye or respiratory irritation after significant exposure.
Required Treatment	Treat symptomatically and supportively. Eye exposure requires prompt medical evaluation.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use water spray, foam, dry chemical, or carbon dioxide appropriate for surrounding fire.
Unsuitable Media	No specific restriction known for the product itself; select media based on surrounding materials.
Specific Hazards	Product is not combustible. Thermal decomposition may release sulfur oxides and aluminum-containing fumes.
Protective Equipment	Firefighters should wear self-contained breathing apparatus and full protective gear when exposed to smoke, dust, or decomposition products.



SECTION 6: ACCIDENTAL RELEASE MEASURES

- Restrict access to affected area and avoid dust generation.
- Wear suitable PPE including gloves, protective clothing, safety goggles or face shield, and dust respirator where airborne dust may occur.
- Sweep, shovel, or vacuum spilled material using dust-control methods and place into clean, labeled containers for recovery or disposal.
- Prevent entry into drains, waterways, and soil. Avoid wet cleanup unless necessary, as aqueous solutions may be acidic.
- Dispose of contaminated material according to local, regional, and national regulations.

SECTION 7: HANDLING AND STORAGE

Safe Handling	Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Handle in well-ventilated areas. Use good industrial hygiene practices and wash after handling.
Storage Conditions	Store in a cool, dry, well-ventilated area in tightly closed containers. Protect from moisture and physical damage.
Incompatibilities	Keep away from strong bases, strong oxidizing agents, reactive metals, and materials sensitive to acidic conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Parameter	Limit / Recommendation
OSHA PEL	No substance-specific OSHA PEL established for aluminum sulfate. Treat dust under applicable nuisance / particulate limits where relevant.
ACGIH TLV	No substance-specific TLV established for aluminum sulfate. Follow applicable particulate exposure guidance and facility standards.
Engineering Controls	Use local exhaust ventilation or dust collection to maintain airborne dust below applicable occupational exposure limits.
Eye / Face Protection	Chemical safety goggles; face shield recommended for transfer, charging, or dusty operations.
Skin Protection	Chemical-resistant gloves and protective work clothing.
Respiratory Protection	Use an approved particulate respirator when ventilation is insufficient or dust exposure may occur.
Hygiene Measures	Do not eat, drink, or smoke in work areas. Wash hands and exposed skin after handling.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Information
Appearance	White to off-white granules, powder, flakes, or solid crystals
Odor	Odorless
Odor Threshold	Not available
pH	Acidic in aqueous solution; typically about 2.5-4.0 depending on concentration
Melting / Decomposition Point	Decomposes on heating; exact value depends on hydration state
Boiling Point	Not applicable / decomposes
Flash Point	Not applicable; non-combustible inorganic solid
Evaporation Rate	Not applicable
Flammability	Not flammable
Vapor Pressure	Not applicable
Relative Density	Approx. 1.6-2.7 depending on grade and hydration
Solubility	Soluble in water
Partition Coefficient	Not applicable for inorganic salt

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive under normal handling and storage conditions.
Chemical Stability	Stable under recommended storage conditions. Hygroscopic grades may absorb moisture.
Possibility of Hazardous Reactions	May react with strong bases; aqueous solutions are acidic and may be corrosive to some metals.
Conditions to Avoid	Moisture, excessive heat, dust generation, and incompatible materials.
Hazardous Decomposition Products	Sulfur oxides and aluminum-containing fumes may form under high-temperature decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Eye contact, skin contact, inhalation of dust, and accidental ingestion.
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Symptoms	Eye pain, redness, tearing, possible serious eye damage; skin redness and irritation; respiratory tract irritation from dust; gastrointestinal irritation if swallowed.
Acute Effects	Irritating to skin and respiratory tract. Causes serious eye damage.
Chronic Effects	Repeated dust exposure may aggravate respiratory irritation. No product-specific chronic toxicity classification is assigned in this summary.
Numerical Toxicity Data	Specific product data not available. Published data for aluminum sulfate grades may vary by hydration and purity; assess final supplied grade and exposure scenario.
Carcinogenicity	Not listed as carcinogenic by OSHA, IARC, or NTP for this product summary.

SECTION 12: ECOLOGICAL INFORMATION

- Avoid uncontrolled release to the environment, drains, and surface waters.
- Aqueous solutions are acidic and may alter water pH, which can be harmful to aquatic organisms.
- Aluminum salts may contribute to aquatic toxicity depending on pH, concentration, and water chemistry.
- Persistence, degradability, bioaccumulation, and mobility data are not fully available for this summary.

SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of product and contaminated packaging in accordance with local, regional, national, and international regulations.
- Do not discharge large quantities to sewer or waterways without treatment and authorization.
- Neutralization and controlled disposal may be required for waste solutions.
- Empty containers may retain residues and should be handled as industrial chemical packaging.

SECTION 14: TRANSPORT INFORMATION

Transport Item	Information
UN Number	Not regulated as dangerous goods for most standard solid commercial grades.
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not applicable



Environmental Hazards	Not classified as a marine pollutant in this summary.
Special Precautions	Protect from moisture and package damage. Verify classification according to final grade, concentration, packaging, and destination regulations.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication	This SDS summary follows the 16-section format used under the OSHA Hazard Communication Standard for hazard communication purposes.
GHS Label Elements	Danger; serious eye damage; skin irritation; respiratory irritation precautions as listed in Section 2.
Inventory / Chemical Control	Regulatory status may vary by country and final product grade. User must verify compliance with destination-specific chemical inventory, import, labeling, and workplace safety requirements.
Professional Use	For industrial and professional use only. Not intended for consumer use.

SECTION 16: OTHER INFORMATION

Date of Preparation / Revision	02 June 2026
Document Type	Safety Data Sheet Summary / MSDS Summary
Prepared For	BASEKIM industrial B2B documentation and customer communication.
Disclaimer	This summary is provided for general industrial safety communication. It does not replace a full supplier-certified SDS for a specific batch, grade, concentration, or jurisdiction. Users must evaluate suitability and regulatory compliance for their own operations.