



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum chloride, anhydrous**

PRODUCT NUMBER: 1011-5

CAS NUMBER: 7446-70-0

SYNONYMS: Aluminum trichloride

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse SKIN with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

POTENTIAL HEALTH EFFECTS: Inhalation, skin, eyes, and ingestion.

EYE CONTACT: Can result in corneal damage or blindness.

SKIN CONTACT: Can produce inflammation and blistering.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

INHALATION: Will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing, and coughing.

INGESTION: Can produce lung damage, choking, unconsciousness, or death.

CHRONIC: The substance is toxic to the lungs and mucous membranes. Repeated or prolonged exposure to the substance can produce target organ damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

HMS RATING:

Health= 3 Flammability= 0 Reactivity= 0

NFPA RATING:

Health= 3 Flammability= 0 Reactivity= 0

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $AlCl_3$

Molecular Weight: 133.34

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Aluminum chloride, anhydrous	7446-70-0	100	N/A	N/A

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN EXPOSURE: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Loosen tight clothing such as a collar, tie, belt, or waistband.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus if necessary

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Aluminum oxide and hydrogen chloride gas

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate personal protection. Call for assistance on disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent entry into sewers, basements, or confined areas.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Use appropriate tools to put the spilled solid in convenient waste disposal container.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Keep locked up. Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately

SECTION 7 HANDLING AND STORAGE (Cont.)

and show the container of the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids and moisture.
CONDITIONS FOR SAFE STORAGE: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Splash goggles. Face shield.

SKIN PROTECTION: Complete suit that is chemical resistant. Nitrile rubber gloves.

VENTILATION: Chemical fume hood.

RESPIRATOR: A self-contained breathing apparatus should be used to avoid inhalation of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to yellowish solid

MOLECULAR WEIGHT: 133.34

MELTING POINT: Sublimes

SPECIFIC GRAVITY: 2.44 (Water=1)

BOILING POINT: 187.7° C

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Strong oxidizing agents and alcohols

DECOMPOSITION PRODUCTS: Aluminum oxide, hydrogen chloride gas.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY:

ORAL LD50: LD50 Oral-rat – 3450 mg/kg

DERMAL LD50: LD50 Dermal – rabbit - >2000 mg/kg

CHRONIC EFFECTS: Causes damage to the following organs: lungs, mucous membranes.

TETRATOGENICITY: Laboratory experiments have shown tetraetogenic effects.

CARCINOGENICITY: No data available

RTECS: BD0525000

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

SECTION 12 ECOLOGICAL DATA

Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more toxic.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1726

Aluminum chloride, anhydrous

CLASS 8

PG II

SECTION 15 REGULATORY INFORMATION

PENNSYLVANIA RTK: Aluminum chloride, anhydrous

MASSACHUSETTS RTK: Aluminum chloride, anhydrous

SARA 311/312 HAZARDS: Acute health hazard, chronic health hazard

TSCA 8(b) INVENTORY: Aluminum chloride, anhydrous.

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

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.

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