SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Aluminum chloride, anhydrous**

PRODUCT NUMBER: 1012

CAS NUMBER: 7446-70-0

SYNONYMS: Aluminum trichloride

MANUFACTURER:

ProChem, Inc.
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Skin corrosion / irritation: Causes severe skin burn and eye damage.	Category 1
Acute toxicity, oral: May be harmful if swallowed.	Category 5
Specific target organ toxicity, single exposure: Respiratory tract irritation	Category 3

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/vapors/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.

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. Can result in corneal damage or blindness.
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. Can produce inflammation and blistering.
INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Loosen tight clothing such as a collar, tie, belt, or waistband. Will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing, and coughing.
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 color, tie, belt, or waistband. Get medical attention if symptoms appear. Can produce lung damage and choking.

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 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: Store under inert gas. 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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

BOILING POINT: 187.7° C
SPECIFIC GRAVITY: 2.44
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 Alkali metals
DECOMPOSITION PRODUCTS: Aluminum oxide, hydrogen chloride gas.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral-rat – 3450 mg/kg**.**
CHRONIC EFFECTS: Causes damage to the following organs: lungs, mucous membranes.
TETRATOGENICITY: Laboratory experiments have shown tetratogenic 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.

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 27.3 mg/l Exposure time: 48 h
Toxicity to microorganisms: EC10 (activated sludge): > 1,000 mg/l Exposure time: 180 min (SIGMA)

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

TSCA: Listed in the TSCA inventory
SARA 311/312 HAZARDS: Acute health hazard, chronic health hazard
PENNSYLVANIA RIGHT TO KNOW: Aluminum chloride, anhydrous
MASSACHUSETTS RIGHT TO KNOW: Aluminum chloride, anhydrous

SECTION 16 OTHER INFORMATION

HMIS RATING:

Health= 3 Flammability= 0 Reactivity= 0

NFPA RATING:

Health= 3 Flammability= 0 Reactivity= 0

CAS #: Chemical Abstracts Service Number
RTECS: Registry of Toxic Effects of Chemical Substances,
LD50: Lethal Dose, 50%
EC10: Lethal Concentration, 10%
EC50: Lethal Concentration, 50%
ACGIH: American Conference of Governmental Industrial Hygienists
TWA: Time-Weighted Average
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
UN: United Nations
PG: Packing Group
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

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 REVISED: 10/26
REVISION SUMMARY: Updated the following Sections - # 2 – removed chronic statement and added categories, # 10 – added Alkali Metals, # 12 – added toxicity statement and # 16 – Added HMIS and NFPD plus Abbreviations. All other details in the document about the product remain unchanged. Updated by EHS 10/26

Reviewed & Approved by EZ 10/26
EHS/SDS DEPT.