

Material Safety Data Sheet

Aluminum Chloride MSDS

Section 1-Chemical Product and Company Identification

Product Name: Aluminum Chloride
CAS: 7446-70-0
Chemical Formula: AlCl₃

Company: NEAR INTERNATIONAL TRADE CO.,LIMITED
FLAT 1506,15/F,LUCKY CENTER,NO.165-171
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Section 2-Hazards Identification

EMERGENCY OVERVIEW

Appearance: light yellow,yellow or slight gray particle or powder. Corrosive. Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. Causes severe eye burns. Causes respiratory tract burns. Causes severe digestive tract burns. Hygroscopic (absorbs moisture from the air). Water-Reactive.

GHS Label elements, including precautionary statements



Pictogram

Signal word

Danger!

Target Organs: Eyes, skin, mucous membranes.

Potential Health Effects

Eye: Causes severe eye burns.

Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion: Causes gastrointestinal tract burns. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

Inhalation: Causes delayed lung injury. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

Chronic: Aluminum may be implicated in Alzheimer's disease. Inhalation of



aluminum containing dusts may cause pulmonary disease.

Section 3-Composition/Information On Ingredient

Chemical Name	CAS#	Percent
Aluminum Chloride	7446-70-0	99.00% min

Section 4-First Aid Measure

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 Minutes while removing contaminated clothing and shoes. Get medical aid Immediately. Wash clothing before re-use.

Ingestion: If swallowed, do not induce vomiting. Get medical aid immediately. If Victim is fully conscious, give a cupful of water. Never give anything by mouth to an Unconscious person.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to physician: Treat symptomatically and supportively.

Section 5-Fighting Measures

General Information: Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus(SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. Containers may explode when heated or if contaminated with water. Aluminum chloride reacts violently with water producing hydrochloric acid and heat. Hydrochloric acid solutions react with most metals, forming flammable hydrogen gas.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, Dry chemical, or carbon dioxide. Do NOT USE WATER! DO NOT get water inside containers. Cool containers with flooding quantities of water until well after fire is out. For larger fires flood fire with water from a distance.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.



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Upper: Not available.

NFPA Rating: (estimated)Health:3; Flammability:0;Instability:2;Special Hazard:-W-

Section 6-Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal Container. Clean up spills immediately,observing precautions in the Protective Equipment section. Avoid generating dust conditions.Do not expose spill to water.

Section 7-Handling And Storage

Handling

Washing thoroughly after handling. Use with adequate ventilation. Loosen closure Cautiously before opening. Do not get in eyes on skin or on clothing. Do not ingest Or inhale. Do not allow contact with water.

Storage

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, Well-ventilated area away from incompatible substances. Keep away from water. Corrosives area. Loosen closure cautiously before opening. Separate from organic materials.

Section 8-Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airbrne concentrations below the permissible exposure limits.

Control parameters

Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
Aluminum Chloride	None listed	None listed	None listed

OSHA Vacated PEL: Aluminum Chloride: No OSHA Vacated PELS are listed for chemical.

Personal protective equipment

Eye: Wear chemical goggles and a face shield.

Skin: Wear impervious gloves.

Clothing: Wear appropriate protective gloves to prevent skin exposure.



Section 9-Physical And Chemical Properties

Appearance

Form	particle or powder
Colour	light yellow, yellow or slight gray

Safety Data

PH	/
Melting point	190°C
Relative density	2.44g/cm ³
Water solubility	soluble
Boiling point	/
Ignition temperature	/
Molecular Formula	AlCl ₃
Molecular Weight	133.34

Section 10-Stability And Reactivity

Chemical Stability: Stable.

Conditions To Avoid: Dust generation, exposure to moist air or water.

Incompatibilities with other Materials: Aluminum chloride reacts violently with water producing hydrochloric acid and heat. Organic materials.

Hazardous Decomposition Products: Hydrogen chloride, aluminum oxide.

Hazardous Polymerization: Has not been reported.

Section 11- Toxicological Information

CAS# 7446-70-0

LD50/LC50

Draize test, rabbit, skin:10%/6D(Intermittent);

Oral, mouse: LD50=1130 mg/kg;

Oral, rat: LD50=3450mg/kg;

Skin, rabbit:LD50 = > 2 gm/kg;

Carcinogenicity:

CAS# 7446-70-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No known effects.

Teratogenicity: May have teratogenic effects in animal studies.

Reproductive Effects: May have reproductive effects in animal studies.

Neurotoxicity: No known effects.

Mutagenicity: No known effects.

Other Studies: See actual entry in RTECS for complete information.



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Section 12-Ecological Information

No information available.

Section 13-Disposal Consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14-Transport information

UN Number: 1726
UN Shipping Name: Aluminum Chloride
Hazard Class: 8
Packing Group: II

Section 15-Reulatory information

Regulations for the safety management of chemical hazardous substances (February 17, 1987), chemical hazardous substances ([1992] 677), the safety of workplace safety and use of chemicals ([1996] 423) and other regulations, for the safe use of hazardous chemicals, production, storage, transportation, loading and unloading, and GB (13690-92) will be classified as class eight acid corrosion products.

Section 16-Additional Information

Reference 《UN RTDG》
《Globally Harmonized System of Classification and Labelling of Chemicals》