



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Aluminium Chloride Anhydrous for synthesis
Cat No.	030114
CAS-No.	7446-70-0
M.W.	133.34
EC-No.	231-208-1
Company	High Purity Laboratory Chemicals Pvt. Ltd.
Address	Plot No. 1902, Fansa Road, G.I.D.C., Sarigam – 396 155, DIST. Valsad, Gujarat (INDIA)
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7446-70-0
Percent	>98.0%
Substance/Mixture	Substance
Synonym	Aluminium Trichloride Anhydrous
Chemical Formula	AlCl ₃

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin corrosion (Category 1B)
 Serious eye damage (Category 1)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.
 EUH014 Reacts violently with water.
 EUH071 Corrosive to the respiratory tract.

Precautionary statement(s)

P260 Do not breathe dust.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P363 Wash contaminated clothing before reuse.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do not induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Dry powder Carbon dioxide (CO ₂) Dry powder
Special hazards	Hydrogen chloride gas, Aluminum oxide
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed. Highly Hygroscopic

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellowish-white crystals or crystalline powder.
Odour	Stinging
Odour Threshold	no data available
pH	no data available
Melting/freezing point	190 °C
Boiling point/range	187.7 °C
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	< 1.33 hPa at 20 °C
Vapour density	no data available
Relative density	2.44 g/cm ³ at 20 °C
Water solubility	450 g/l at 20 °C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	no data available
Hazardous decomposition	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Aluminum oxide Other decomposition products - No data availab
products	
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Oral - Rat - 3,450 mg/kg
Acute dermal toxicity	LD50 Rabbit: > 2,000 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/irritation	Causes serious eye damage. Risk of blindness!
Respiratory/skin sensitization	Guinea pig Result: Did not cause sensitisation on laboratory animals.



Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	BD0525000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 27,3 mg/l - 48 h
Toxicity to bacteria	EC10 activated sludge: > 1,000 mg/l; 180 min
Persistence/degradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Environmental	Harmful effect due to pH shift. Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1726
Proper shipping name	ALUMINIUM CHLORIDE ANHYDROUS
Hazard class	8
Packaging group	II
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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