OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

ALUMINIUM CHLORIDE
(Hexahydrate) (Purified)
MSDS CAS: 7784-13-6

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ALUMINIUM CHLORIDE Hexahydrate
CAS#: 7784-13-6
Synonym: Aluminum (III) chloride, hexahydrate
Chemicals Name: Aluminum trichloride Hexahydrate
Chemical Formula: $AlCl_3.6H_2O$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Aluminum chloride, Hexahydrate	7784-13-6	100

Toxicological Data on Ingredients: Aluminum chloride hexahydrate: ORAL (LD50): Acute: 3311 mg/kg [Rat]. 1990 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

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

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-Flammable.
Auto-Ignition Temperature: Not applicable
Flash Points: Not applicable.

Section 5: Fire and Explosion Data (Continued)

Flammable Limits: Not applicable
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not applicable
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable
Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes of hydrogen chloride, aluminum oxide
Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: **Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.**

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: (Solid crystalline powder. Deliquescent solid.)

Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: 241.43 g/mole**
Color	**: White to yellowish.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: 182.22°C (360°F)**
Melting Point	**: 100°C (212°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: 2.398 (Water = 1)**
Vapor Pressure	**: Not applicable.**
Vapor Density	**: Not available.**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: See solubility in water, diethyl ether.**
Solubility	**: Easily soluble in cold water, hot water, diethyl ether. Soluble in alcohol, glyercol, propylene glycol**

Section 10: Stability and Reactivity Data

Stability : The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Incompatible materials, water, moist air
Incompatibility with various substances: Reactive with oxidizing agents, alkalis.
Corrosivity : Not available.
Special Remarks on Reactivity: Deliquescent. Decomposes on exposure to moist air or water.
Special Remarks on Corrosivity: Not available.
Polymerization : Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.
Toxicity to Animals: Acute oral toxicity (LD50): 1990 mg/kg [Mouse].
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: May cause birth defects (teratogenic) based on animal test data. No human test data found. May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Material is irritating to mucous membranes and upper respiratory tract. Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting and abdominal spasms. Chronic Potential Health Effects: Skin: Repeated or prologed skin contact may cause dermatitis, an allergic reaction. Ingestion: Prolonged or repeated ingestion may affect behavior, blood, metabolism, brain, liver, urinary system, and musculoskeletal system.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General Information: Not Regulated

Sea transport (IMDG) [English only]

General Information: Not Regulated

Air transport (ICAO-IATA) [English only]

General Information: Not Regulated

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: No products were found.

Other Regulations: Not available.

Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36/38- Irritating to eyes and skin. S24/25- Avoid contact with skin and eyes. S36/37- Wear suitable protective clothing and gloves. S38- In case of insufficient ventilation, wear suitable respiratory equipment. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 0

Section 15: Other Regulatory Information (Continued)

Personal Protection: E
National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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