MATERIAL SAFETY DATA SHEET

Aluminium Chlorohydrate

SECTION 1: Identification of the Substance/Mixture and of the Company

1.1 Product Identifier

Chemical Names and Synonyms: Aluminium Chlorohydrate; Dialuminium chloride pentahydroxide; Aluminum chloride oxide

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses: Water treatment chemical, water clarification coagulant, cosmetic ingredient and various industrial applications.

1.3 Details of the Supplier of the Safety Data Sheet

Name: Cosmo Chemistry

Address: Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat – 395006, India

Phone: +91 97979 77958

Email: info@cosmochemistryindia.com

1.4 Emergency Contact Detail

Information Department: Cosmo Chemistry

Emergency Telephone Number: +91 97979 77958

SECTION 2: Hazard Identification

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS): Not classified as dangerous for supply.

2.2 Label Element

Signal Word: None Hazard Pictogram: None Hazard Statements: None

Precautionary Statements — Prevention: None Response: None Storage: None Disposal: None

2.3 Other Hazards

None

SECTION 3: Information on Ingredients

CAS Name	CAS Number	Percentage
Aluminum Chlorohydrate	12042-91-0	10 – 50
Water	7732-18-5	50 – 90

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Information: Show this safety data sheet to the doctor in attendance.

Skin Contact: Immediately flush the contaminated skin with water. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water. Get medical attention promptly if irritation occurs.

Eye Contact: Immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids, for at least 15 minutes. Get medical attention immediately.

Inhalation: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Ingestion: Rinse mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Call Poison Information Centre.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation: No known significant effects or critical hazards.

Ingestion: No information available. May irritate the respiratory tract.

Skin Contact: May cause irritation to skin.

Eye Contact: May cause irritation to eye.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

No additional information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: No information available.

5.2 Special Hazards Arising from the Substance or Mixture

Fire hazard: Non-combustible. Explosion hazard: Product is not explosive. Reactivity: Not determined.

5.3 Special Protective Actions for Firefighters

Precautionary measures fire: No special measures are required.

Firefighting instructions: None.

Protection during firefighting: Wear full protective clothing, goggles, masks.

5.4 Additional Information

None

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel — Protective equipment: Wear suitable protective equipment (refer Section 8) to prevent contamination of skin, eyes and personal clothing. Emergency procedures: None.

For emergency responders — Protective equipment: Equip cleanup crew with proper protection. Emergency procedures: Ventilate area.

6.2 Environmental Precautions

Avoid mixing of spilled material with drains, surface and ground water. The product is an acid. Inform the relevant authority if material causes pollution in sewer etc.

6.3 Methods and Material for Containment and Cleaning Up

For containment: Collect spillage.

Methods for cleaning up: Stop leaks. Clear spills immediately. Contain large spills and remove using a vacuum truck. Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Dispose as per regulation.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Use proper and appropriate personal protective equipment while handling the product. Keep the product away from heat and close the drum when not in use.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Incompatible products: Strong bases, strong acids, strong oxidizers, metals, etc.

Storage area: Store in a dry, cool, well-ventilated place. Keep away from combustible materials.

Incompatible material: Sources of ignition, direct sunlight.

Storage condition: Keep only in the original container in a cool, well-ventilated place away from incompatible materials. Keep container closed when not in use. Recommended storage temperature: >25 °C.

7.3 Specific End Use(s)

None

SECTION 8: Exposure Controls and Protection

8.1 Control Parameters

No occupational exposure limits have been established for this product or its chemical components.

8.2 Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined spaces. An emergency eyewash fountain and safety shower should be available.

Personal protective equipment: Safety glasses, gloves, protective clothing, face shield.

Eye/face protection: Goggles giving complete protection to eyes.

Skin protection: Chemical-resistant apron / corrosive protective clothing, heavy-duty work shoes. Handle with gloves.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Other information: Do not eat, drink or smoke during use.

8.3 Environment Exposure Control

Do not allow the product to be released into the environment. Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and Chemical Properties

Parameter	Value
Form	Liquid
Colour	Clear, colorless to pale yellow
Odour	None
Specific Gravity @ 25 °C	1.30 to 1.40
Active Content %	10 – 50
Boiling Point °C	>110
Vapour Pressure @ 35 °C	Not applicable
Flash Point	Not applicable (Non-Flammable)
Solubility in Water	Soluble in water
Viscosity, Dynamic @ 25 °C	Not known
pH (5% Solution)	3.0 to 7.0

SECTION 10: Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Stable under recommended handling and storage conditions.

10.3 Possibility of Hazardous Reactions: No hazardous reaction when properly stored.

10.4 Conditions to Avoid: Incompatible materials.

10.5 Incompatible Materials: Acids, bases, oxidizing agents.

10.6 Hazardous Decomposition Products: HCl fumes may be liberated during decomposition.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity — LD50 oral: No data available. LD50 dermal: No data available.

11.2 Primary Irritant — Short Term and Long Term Effects

Skin: No data available. Eyes: No data available. Sensitization: No data available.

11.3 Carcinogenic Toxicity: No relevant information available.

11.4 Mutagenic Toxicity: No adverse effect observed.

11.5 Reproductive Toxicity: No relevant information available.

SECTION 12: Ecological Information

12.1 Toxicity: Not classified.

12.2 Bio-Accumulation: No data available.

12.3 Biodegradability / Persistence: No data available.

12.4 Mobility: No data available.

12.5 Results of PBT and vPvB Assessment: No available data.

12.6 Other Adverse Effects: Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Product/Packaging disposal: Packaging that cannot be reused after cleaning must be disposed of or recycled in accordance with all federal, national and local regulations.

Waste disposal recommendations: Dispose of waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed with other waste.

13.2 Additional Information: Avoid release to the environment.

SECTION 14: Transport Information

Mode	Land Transport (ADR/RID)	Inland Waterway (ADNR)	Marine (IMDG)	Air (ICAO/IATA)
UN Number	Not regulated	Not regulated	Not regulated	Not regulated

UN Proper Shipping Name: Aluminium Chlorohydrate

Hazard Class / Label / Packaging Group / Environmental Hazard / Marine Pollutant / EmS No.: Not applicable.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

All components are listed or exempted in TSCA.

15.2 Chemical Safety Assessment: Not available.

SECTION 16: Other Information

None

Disclaimer: To the best of our knowledge, the information contained herein is accurate. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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