ESSENTIAL CHEMISTRY. INNOVATIVE SOLUTIONS.

SAFETY DATA SHEET

Print Date: March 19, 2025

Section 1: Product & Company Information

Product Identifier: **Aluminum Chlorohydrate Powder, COREPAC™ ACH-P**

Other Means of Identification
Product Number: 174159

Recommended Use and Restrictions on Use
Recommended Use: For industrial use only.
Restrictions on Use: No data available.

Manufacturer / Importer / Supplier / Distributor Information
Company Name: CORECHEM Inc.
Address: 4320 Greenway Drive
Knoxville, TN 37918
USA

Information Telephone Number: 1-865-524-4239
Fax Number: 1-865-524-3375
Website: www.corechemInc.com
Contact Person: Regulatory Manager
E-mail: regulatory@corechemInc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 *(monitored 24 hours/day)*

Section 2: Hazards Identification

GHS Hazard Classification(s)
Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Section 3: Composition/Information on Ingredients

Substance

Chemical Identity [2]	Common Name/Synonym(s)	CAS # [3]	Weight %	Impurity or Stabilizing Additive
Dialuminum Chloride Pentahydroxide	Aluminum Chlorohydrate	12042-91-0	100 %	No

1. Information regarding the composition and the percentage ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
3. "— "Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information
Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing; Administer oxygen if breathing is difficult.

Skin Contact
IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Eye Contact
IF IN EYES: Immediately flush your eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Ingestion
IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if a large quantity of this material is swallowed or if you feel unwell. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Symptoms

If Inhaled: May cause mucous membrane irritation with cough and rhinitis.
If On Skin: May cause mild irritation dryness and dermatitis.
If In Eyes: May cause redness, conjunctivitis and short term mild irritation.
If Swallowed: May cause burning pain in mouth and throat.

Indication of immediate medical attention and special treatment needed

Hazards

No data Available.

Treatment

Treat symptomatically.

Section 5: Fire-Fighting Measures

General Fire Hazards

If safe to do so, move undamaged containers from the fire area. Cool containers with water spray until well after the fire is out.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

If material is involved in a fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific Hazards Arising from the Chemical

Contact with metals may evolve flammable hydrogen gas. Fire or heat may produce irritating, toxic and/or corrosive fumes, including Hydrogen chloride.
Hydrogen chloride may be released when heating above the decomposition temperature.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. The spill or leak area should be isolated immediately. Keep unauthorized personnel away.

Methods and Materials for Containment and Clean-Up

Contain spills in dyke or use absorptive barriers. Remove larger spills using a vacuum truck. Must be disposed of in accordance with local and national regulations. Product is water-soluble and compatible with water treatment plants. Product reacts with soaps forming a hydroxide gel.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Cover the drains to prevent the product from entering the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 7: Handling and Storage

Precautions for Safe Handling

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8).

Conditions for Safe Storage, including any Incompatibilities

Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid freezing and excessive heat. Keep away from incompatible materials (see SECTION 10). Suitable materials for packaging: Plastic (PE, PP, PVC); Avoid non-acid proof metals.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Occupational exposure limit is 2mg/m3 as Aluminum for soluble Aluminum compounds.

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Appropriate Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Individual protection measures, such as personal protective equipment (PPE)

General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Eye/Face Protection

Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or chemical goggles.

Skin Protection

Hand Protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory Protection

Respiratory protection: Respiratory protection is not required under normal handling conditions. Wear respiratory protection if mist, vapors or aerosols are formed. Recommended: Inorganic gases and vapors/particulate filter respirator (refer to AS/NZS 1715 & 1716).

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Solid
Color:	White to light-yellow powder.
Odor:	Practically odorless.
Odor Threshold:	No data available.
pH:	Approximately 4 in a 15% aqueous solution.
Melting Point/Freezing Point:	Not applicable.
Initial Boiling Point and Boiling Range:	Not applicable.
Flash Point:	Not applicable.
Evaporation Rate (butyl acetate=1)**:**	No data available.
Flammability (solid, gas):	No data available.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	Not applicable.
Flammability Limit – Lower:	Not applicable.
Explosive Limit – Upper:	No data available.
Explosive Limit – Lower:	No data available.
Vapor Pressure:	Not applicable.
Vapor Density (air =1)**:**	Not applicable.
Relative Density (water=1)**:**	1.17 (Water = 1)
Solubility(ies):	
Solubility in water:	Fully soluble.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	Not applicable.
Decomposition Temperature:	>200 °C
Viscosity:	No data available.

Other Information:

Molecular Weight:	No data available.
Formula:	Al2Cl (OH)5

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Excessive heating after water evaporation for long periods of time can result in the evolution of HCl. Will react with caustics to form aluminum hydroxides. Can corrode ordinary grades of steel.

Incompatible Materials

Incompatible/reactive with metals, bases, oxidizing agents, hypochlorite, sulphites.

Hazardous Decomposition Products

Fire or heat may produce irritating, toxic and/or corrosive fumes, including Hydrogen chloride. HCl can be evolved during high temperature heating for extended periods of time.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: May cause burning in mouth and throat.
Inhalation: May cause irritation to mucous membranes.
Skin Contact: May cause irritation; Skin may dry or crack due to astringent nature of material.
Eye Contact: May cause irritation and redness.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Acute toxicity: - LD50, Rat: >2,000 mg/kg

Dermal

Acute toxicity: - LD50, Rat: >2,000 mg/kg

Inhalation

Not classified.

Repeated Dose Toxicity

Not classified.

Skin Corrosion/Irritation

Not classified.

Serious Eye Damage/Eye Irritation

Not classified.

Respiratory/Skin Sensitization

Not classified.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

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.

US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Germ Cell Mutagenicity

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

Reproductive Toxicity

Not classified.

Specific Target Organ Toxicity – Single Exposure

Not classified.

Specific Target Organ Toxicity – Repeated Exposure

Not classified.

Aspiration Hazard

Not classified.

Other Effects

None known.

Section 12: Ecological Information

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Acute LC50, Fish (Branchydanio rerio (Zebra fish)): >100 – 500 mg/l (96 h)

Aquatic Invertebrates

EC50 (Daphnia Magna): > 397 mg/l (48 h)

Toxicity to Aquatic Plants

Not classified.

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability

Biodegradation

Inorganic product, not degradable. Cannot be eliminated from water by biological purification processes.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

The product is not expected to bioaccumulate.

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in Soil

Not classified based on rapid hydrolysis and precipitation.

Other Adverse Effects

No data available.

Section 13: Disposal Considerations

Disposal Instructions

Dispose of contents/container in accordance with local/regional/national regulations.

Contaminated Packaging

Dispose of contents/container in accordance with local/regional/national regulations. Thoroughly cleaned packaging material may be recycled.

Section 14: Transportation Information

US Department of Transportation (DOT)

This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

No chemical(s) in this material are subject to the reporting requirements of CERCLA.

Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)

EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive:	No
Acute (Immediate) Health Hazard:	Yes
Chronic (Delayed) Health Hazard:	No

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Section 16: Other Information

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard:	**2**
Chronic Health Hazard:	**/**
Flammability:	**0**
Physical Hazard:	**0**
Personal Protection:	**B**

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard:	**2**
Fire Hazard:	**0**
Reactivity Hazard:	**0**
Special:	**N/A**

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL – Immediately Dangerous to Life and Health
Kg – Kilogram
l – Liter
lb – Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml – milliliter
N/A – Not Applicable
N/D – Not Determined
PEL – Permissible Exposure Limit
REL – Recommended Exposure Limit
STEL – Short-term Exposure Limit
TWA - Time weighted average
ACGIH - American Conference of Industrial Hygienists
AIHA – American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS – Chemical Abstracts Service
DOT – US Department of Transportation
EPA – US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OSHA – US Occupational Health and Safety Administration
SARA – US EPA Superfund Amendments and Reauthorization Act
TSCA – US EPA Toxic Substances Control Act
UN - United Nations

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

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