



G E O
SPECIALTY CHEMICALS



Certified to ANSI/NSF 60

Material Safety Data Sheet

Section 1 - Chemical Product and Company Information

PRODUCT NAME: Aluminum chlorhydrate solution
 SYNONYMS: Aluminum chlorohydrate; Aluminum chloride hydroxide; Aluminum hydroxychloride; Aluminum chloride oxide; Aluminum chlorohydrol
 SUPPLIER: GEO Specialty Chemicals
 ADDRESS: 9213 Arch Street Pike, Little Rock, AR 72206

<u>NFPA Rating</u>		<u>HMS Rating</u>	
HEALTH:	1	HEALTH:	1
FLAMMABILITY:	0	FLAMMABILITY:	0
REACTIVITY:	0	REACTIVITY:	0

EMERGENCY TELEPHONE NUMBER: CHEMTREC 1-800-424-9300

EMERGENCY OVERVIEW

Clear to slightly hazy, water-white to yellow liquid with no odor. May cause skin, eye and respiratory irritation.

Section 2 - Composition Information

<u>INGREDIENTS</u>	<u>CAS NO.</u>	<u>% WT/WT</u>	<u>PEL</u>	<u>TLV</u>
Aluminum Chlorhydrate	1327-41-9	50%	*15 mg/m ³ (TD) *5 mg/m ³ (RF)	SOLUBLE SALTS: *2 mg/m ³ (TWA)

*Aluminum metal, (as Al)

Water	7732-18-5	50%	NTES	NTES
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LISTED AS CARCINOGEN BY:

IARC: NO
 OSHA: NO
 NTP: NO
 ACGIH: NO

PEL: OSHA Permissible Exposure Limit	TWA: Time Weighted Average, 8-hr	TD: Total dust
STEL: Short Term Exposure Limit	TLV: ACGIH Threshold Limit	ND: Nuisance dust
HI: Hazardous Ingredient	CLM: Ceiling Limit	INP: Inhalable Particulate
OM: Oil mist	WF: Wax fume	RF: Respirable fraction
ST: Skin TWA		

Section 3 - Hazards Identification

ROUTES OF EXPOSURE

INHALATION: Inhalation of mist or spray may irritate respiratory tract.
SKIN CONTACT: May cause skin irritation, especially on prolonged contact.
SKIN ABSORPTION: No Data
EYE CONTACT: Direct eye contact may cause irritation, redness, and swelling. Prolonged exposure to Aluminum salts may cause conjunctivitis.
INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Possible eye, skin and respiratory tract irritation.
CHRONIC OVEREXPOSURE: May aggravate existing skin, eye, and lung conditions. Persons with kidney disorders have an increased risk from exposure based on general information found on aluminum salts.

Section 4 - First Aid Measures

EYES: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention.
SKIN: Wash thoroughly with soap and water, remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention if irritation should develop.
INHALATION: Remove to fresh air.
INGESTION: Seek medical attention immediately. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Fire Fighting Measures

FLASHPOINT: NAPL	<u>FLAMMABLE LIMITS IN AIR, % BY VOLUME:</u>
AUTOIGNITION TEMPERATURE: NAPL	LOWER FLAMMABILITY LIMIT: NAPL
	UPPER FLAMMABILITY LIMIT: NAPL
EXTINGUISHING MEDIA: Water Spray, Carbon Dioxide, Foam, Dry Chemical.	

FIRE OR EXPLOSION HAZARDS: May produce hazardous fumes or hazardous decomposition products.
FIRE FIGHTING PROCEDURES: Product is a water solution and nonflammable. In a fire, this product may build up pressure and rupture a sealed container; cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas; avoid breathing vapors or dust.

Section 6 - Accidental Release Measures

Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways. For small spills, use soda ash to neutralize, an inert material to absorb, or wash product to a chemical sewer. Place contaminated materials into containers and store in a safe place to await proper disposal. Wear adequate personal protective clothing and equipment. Caution use of soda ash may generate carbon dioxide gas. Provide adequate ventilation to spill area. Approved breathing apparatus may be necessary.

Section 7 - Handling and Storage

PRECAUTIONARY STATEMENTS:

CAUTION!

MAY CAUSE IRRITATION.

Avoid contact with eyes, skin, and clothing.

Avoid breathing mist or spray.

Wear chemical splash goggles, gloves, and protective clothing when handling.

Use with adequate ventilation and employ respiratory protection where mist or spray may be generated.

Wash thoroughly after handling.

May be harmful if swallowed or inhaled.

Keep away from heat and open flame.

Keep container closed when not in use.

FOR INDUSTRIAL USE ONLY.

HANDLING/STORAGE REQUIREMENTS:

Store in a cool, dry place away from direct heat. Keep container tightly closed when not in use. Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum and mild steel.

Section 8 - Exposure Controls/Personal Protection

VENTILATION REQUIREMENTS: Local exhaust ventilation recommended.

EYE PROTECTION: Chemical splash goggles and/or face shield.

SKIN PROTECTION: Chemical resistant gloves.

RESPIRATORY PROTECTION: When exposures exceed the PEL, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.

OTHER REQUIRED EQUIPMENT: Standard work clothing and work shoes. Safety shower and eye wash located in immediate area.

Section 12 - Ecological Information

BOD5:	mg O2/mg:	NAV
	ppm:	NAV
	Biodegradable, %:	NAV
BOD28:	mg O2/mg:	NAV
	ppm:	NAV
	Biodegradable, %:	NAV
COD:	mg O2/mg:	NAV
	ppm:	NAV
	Biodegradable, %:	NAV

Aquatic Toxicity:
Not Available

Section 13 - Disposal Considerations

Dispose of in accordance with all applicable federal, state and local regulations.

Section 14 - Transportation Information

DOT Proper Shipping Name:
NOT APPLICABLE, NOT RESTRICTED
Harmonized Tariff Schedule Number: 2827.49.50.00

Section 15 - Regulatory Information

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

SARA Section 311/312: Acute Health Hazard.
TSCA: Components found in TSCA Inventory.

Section 16 - Other Information

PREPARER'S NAME:	Michael R. Oldfield
PREPARER'S TITLE:	Enhanced Aluminum Products Manager
PREPARER'S TELEPHONE NUMBER:	(501) 888-1211
REFERENCE NUMBER:	3204H
LAST REVISION DATE:	4/13/00

The information herein is given in good faith but no warranty, expressed or implied, is made.

Legend

NAV = Not Available; NAPL = Not Applicable; NTES = None Established; TRSC = Trade Secret