# Aluminum Chloride, 6-Hydrate



### **Section 1**

Section 2

### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Aluminum Chloride, 6-Hydrate Science education applications Aluminum (III) Chloride, Hexahydrate; Aluminum Trichloride, Hexahydrate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# WARNING



Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Systemic Toxicity (STOT) -Single Exposure Category 3, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 5

#### **Section 3**

Section 4

Section 6

### **Composition / Information on Ingredients**

CAS #

7784-13-6

%

100

Cł	nem	ical	Na	am	ne_	

Aluminum Chloride, 6-Hydrate 95-100%

### **First Aid Measures**

Inhalation: I Eyes: I	Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.				
Skin Contact:					
	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.				
Section 5	Firefighting Procedures				
Extinguishing Media:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.				
Fire Fighting Methods an	<b>d Protection:</b> Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				

Fire and/or Explosion Hazards: Hazardous Combustion Products:

## Spill or Leak Procedures

Hydrogen chloride, Aluminum oxide dust,

N/A

Exposure to the spilled material may be irritating or harmful. Follow personal protective Steps to Take in Case Material Is **Released or Spilled:** equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Do not flush to sewer. Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Handling and Storage

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-Handling: ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a Storage: cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8	Protection Information				
	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
No data available	N/A	N/A	N/A	N/A	
Control Parameters Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.				

Personal Protective Equipment (PPE): **Respiratory Protection:** 

Eye Protection:

Section 7

Skin Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Respiratory protection may be required in addition to ventilation depending upon conditions of use. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Nitrile

Gloves:

Section 9

### Physical Data

Formula: AICI3\*6H2O Molecular Weight: 241.43 Appearance: Crystalline Solid Odor: No data available Odor Threshold: No data available pH: 2.5 - 3.5 at 20 °C Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: 1 hPa (1 mmHg) at 100 °C (212 °F) Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.4 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available

Percent Volatile by Volume: 0%

Reactivity Data

### Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid: **Incompatible Materials:** Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Strong acids Aluminum oxide dust,, Hydrogen chloride Will not occur

Section 11		Toxicit	y Data			
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion, eye or skin contact. N/A No data available					
Acute Toxicity: Chemical Name Aluminum Chloride, 6-I	Hydrate 95-100%	<b>CAS Number</b> 7784-13-6	<b>Oral LD5</b> Oral LD50 Mo 1990 mg/kg Oral LD50 Ra 3311 mg/kg	ouse Not dete		nhalation LC50 ot determined
Carcinogenicity: Chemical Name No data available		CAS Number 7784-13-6	IARC Not listed	Not listed	I <b>TP</b> d N	<b>OSHA</b> ot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a te No evidence of a se No evidence of neg : See Section 2 Tests on laborate	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects., Not listed as a carcinogen by IARC, NTP or OSHA.				
Section 12		Ec	ological D	Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effect:	wildlife. Cor No data No data No data No data No data	gical hazard. In high mponents of this prod	concentrations, t uct are hazardou	his product may b us to wildlife and a	be dangerous to aquatic life.	o plants and/or
<b>Chemical Name</b> N/A		CAS Number Eco Toxicity 7784-13-6				
Section 13		Dispe	osal Inforr	nation		
Disposal Methods: Waste Disposal Code	con	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined				
Section 14		Trans	port Infor	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:N/ANot regulated for air transport by IATA.						
Section 15 Regulatory Information						
TSCA Status:	A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.					
Chemical Name	CAS Number	§ 313 Name r	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7784-13	3-6 No	No	No	No	No
Section 16		Additi	onal Infor	mation		

## **Additional Information**

#### Revised: 09/03/2014

Replaces: 08/27/2014

#### Printed: 04-21-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act
DOT IARC N/A	U.S. Department of Transportation International Agency for Research on Cancer Not Available	SARA TLV TSCA	Superfund Amendments and Reauthorization Act Threshold Limit Value Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health