

SAFETY DATA SHEET

Creation Date 10-Sep-2010

Revision Date 27-May-2019

Revision Number 6

1. Identification **Product Name** Aluminium chloride Cat No. : C1363 CAS-No 7446-70-0 **Synonyms** Aluminium trichloride **Recommended Use** Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet **Company** Lab Alley LLC

Lab Alley LLC 12501 Pauls Valley Road, Suite A Austin, Texas 78737 Tel.: 512-668-9918

Emergency Telephone Number InfoTrac: 800-535-5053

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 B Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Reacts violently with water

3. Composition/Information on Ingredients

Component	Component		Weight %					
Aluminum chloride		7446-70-0	>95					
	4.	First-aid measures						
General Advice	eneral Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention required.							
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.							
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.						
Inhalation	control cente the substanc	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.						
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of wate Never give anything by mouth to an unconscious person.							

Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation					
Notes to Physician	Treat symptomatically					
	5. Fire-fightir	ng measures				
Suitable Extinguishing Media	CO 2, dry chemical, dry sar	d, alcohol-resistant foam.				
Unsuitable Extinguishing Media	DO NOT USE WATER					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information available					
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available					
Specific Hazards Arising from the C The product causes burns of eyes, sk		Reacts violently with water.				
Hydrogen chloride. Hydrogen chloride Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear. Thermal decomposition NFPA Health	ons for Firefighters athing apparatus pressure-d		ved or equivalent) and full Physical hazards			
3	0	2	W			
	6. Accidental re					
Environmental Precautions	ersonal PrecautionsUse personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.nvironmental PrecautionsDo not flush into surface water or sanitary sewer system.					
Methods for Containment and Clea Up	n Sweep up and shovel into expose spill to water.	suitable containers for disposal	I. Avoid dust formation. Do not			
	7. Handling a	and storage				
Handling	clothing. Use only under a	quipment/face protection. Do r chemical fume hood. Do not br diate medical assistance. Do r osphere.	reathe dust. Do not ingest. If			
Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from water or moist air. Do not store in metal containers. Store under an inert atmosphere. Protect from moisture.						
Storage	Keep away from water or n	noist air. Do not store in metal				
-	Keep away from water or n atmosphere. Protect from r	noist air. Do not store in metal	containers. Store under an inert			

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Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Aluminum chloride		(Vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³	

Legend

OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showe are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Solid	
Appearance	Yellow	
Odor	pungent	
Odor Threshold	No information available	
pH	2.4 100 g/L aq.sol	
Melting Point/Range	194 °C / 381.2 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	2.440	
Solubility	Water reactive	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	Not applicable	
Molecular Formula	AI CI3	
Molecular Weight	133.34	
U U		

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Stable under normal conditions.
Conditions to Avoid	Excess heat. Incompatible products. Exposure to moist air or water. Exposure to moisture.

Incompatible MaterialsWater, Strong oxidizing agents, Alkali metals, Strong bases, MetalsHazardous Decomposition ProductsHydrogen chloride, Hydrogen chloride gasHazardous PolymerizationHazardous polymerization does not occur.Hazardous ReactionsNone under normal processing. Reacts violently with water.11. Toxicological information

Acute Toxicity

Product Information

Componen	t	LD50 Oral		LD50 Dermal	LC50	nhalation	
Aluminum chlo	ride	_D50 = 3470 mg/kg (Rat)		> 2 g/kg (Rabbit)	Nc	t listed	
oxicologically Syn roducts	-	No information ava			I		
elayed and immed	iate effects as	well as chronic effe	cts from short ar	d long-term expo	sure		
ritation		Causes burns by a	Ill exposure routes				
ensitization		No information ava	ailable				
arcinogenicity		The table below in	dicates whether e	ach agency has list	ted any ingredient	as a carcinoge	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Aluminum chloride	7446-70-0	Not listed	Not listed	Not listed	Not listed	Not listed	
utagenic Effects		No information available					
eproductive Effect	S	No information available.					
evelopmental Effe	cts	No information ava	ailable.				
eratogenicity		No information ava	No information available.				
TOT - single expos TOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information available					
ymptoms / effects elayed	,both acute and	Product is a corrosive material. Use of gastric lavage or emesis is contraindical Possible perforation of stomach or esophagus should be investigated: Ingestio					

severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available

Other Adverse Effects

12. Ecological information

The toxicological properties have not been fully investigated.

Ecotoxicity

The product contains following substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms. Reacts with water so no ecotoxicity data for the substance is available.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Aluminum chloride	Not listed	Gambusia affinis: LC50=27.1 mg/L 97h	Not listed	EC50: 3.9 mg/L 48h EC50: 27.3 mg/L 48h			
Persistence and Degradal	bility Persistence i	Persistence is unlikely based on information available.					

Bioaccumulation/ Accumulation No

No information available.

Mobility

Is not likely mobile in the environment.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN1726
Proper Shipping Name	ALUMINUM CHLORIDE, ANHYDROUS
Hazard Class	8
Packing Group	II
TDG	
UN-No	UN1726
Proper Shipping Name	ALUMINUM CHLORIDE, ANHYDROUS
Hazard Class	8
Packing Group	II
IATA	
UN-No	UN1726
Proper Shipping Name	ALUMINIUM CHLORIDE, ANHYDROUS
Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN1726
Proper Shipping Name	ALUMINIUM CHLORIDE, ANHYDROUS
Hazard Class	8
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Aluminum chloride	7446-70-0	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Aluminum chloride	7446-70-0	Х	-	231-208-1	Х	Х	Х	Х	KE-01045

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable

Clean Air Act		Not applicable					
OSHA - Occupational Safety and Health Administration		Not applicable					
CERCLA		Not applicable					
California Proposition 65		This product does not contain any Proposition 65 chemicals.					
U.S. State Right-to-Know Regulations	I						
Component	Massach	usetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Aluminum chloride	Х		Х	Х	-	Х	
DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland Security				lowing DHS chemicals Threshold Quantities,		d amount	
Component				DHS Chemical Facility Anti-Terrorism Standard			
Aluminum chloride <u>Other International Regulations</u>					APA		
other international Regu							
Mexico - Grade	No information available						

	16. Other information
Prepared By	Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com
Creation Date Revision Date Print Date Revision Summary	10-Sep-2010 27-May-2019 27-May-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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

End of SDS