

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

Aluminum(III) Chloride A1831

For laboratory research purposes. Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	Causes severe skin burns and eye damage
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.
[Response]	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store locked up.
[Storage] [Disposal]	Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified: [HNOC]	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:
Components:
Percent:
CAS RN:
Molecular Weight:
Chemical Formula:

Substance Aluminum(III) Chloride >98.0%(T) 7446-70-0 133.33 AlCl₃

4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.		
Eye contact:	Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
Ingestion:	Continue rinsing.Immediately call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Pain. Redness.		
Delayed:	No data available		
Indication of any immediate medical attention of attention of any immediate medical attention of any immediate medical attention of att	ention:		
Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, carbon dioxide. Water		
Hazardous combustion products: Other specific hazards:	These products include: Halogenated compounds Metallic oxides WARNING: Highly toxic HCI gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	Prevent product from entering drains.		
7. HANDLING AND STORAGE			
Precautions for safe handling: Conditions for safe storage, including a Storage conditions: Packaging material:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. May develop pressure. Open carefully. ny incompatibilities Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Exposure limits: ACGIH TLV(TWA):	2 mg (Al)/m ³		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.		
Personal protective equipment Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.		

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9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Yellow Strong Chlorine No data available No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available	
Flash point: Flammability(solid, gas): Solubility(ies):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available	
[Water] [Other solvents] Very soluble: Soluble:	Ether	Carbon disulfide, Nitrobenzene, Benzophenone, Many organic solvents		
10. STABILITY AND REACTIV	VITY			
Reactivity: Chemical stability: Possibility of hazardous reactior Conditions to avoid: Incompatible materials: Hazardous decomposition produ	Moisture Oxidizing agents, Wa	act with water and liberates toxic gases. ter, Alcohols		
11. TOXICOLOGICAL INFOR	MATION			
RTECS Number: BD0525000				
Acute Toxicity: orl-mus LD50:1130 mg/kg skn-rbt LD50:>2 g/kg		orl-rat LD50:3450 mg/kg		
Skin corrosion/irritation: skn-rbt 10 % open SEV		skn-mus 10 % open SEV		
Serious eye damage/irritation: No data available				

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: cyt-mus-ipr 444 mg/kg

Carcinogenicity: No data available

IARC:	No data available

NTP: No data available

dnd-rat-ast 500 umol/L

orl-rat TDLo:900 mg/kg (15D preg)

OSHA: No data available

Reproductive toxicity: orl-mus TDLo:425 mg/kg (multigenerations) ipr-rat TDLo:500 mg/kg (14-18D preg)

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available
13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is

intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

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14. TRANSPORT INFORMATION

Disposal of container: Other considerations:

DOT (US) UN number: UN1726	Proper Shipping Name: Aluminium chloride, anhydrous	Class or Division: 8 Corrosive material	Packing Group: II
IATA UN number: UN1726	Proper Shipping Name: Aluminium chloride, anhydrous	Class or Division: 8 Corrosive material	Packing Group: II
IMDG UN UN1726 numb er:	Proper Shipping Name: Aluminium chloride, anhydrous	Class or Division: 8 Corrosive material	Packing Group: II

EmS number:

F-A, S-B

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardo	ous substance and Re	eportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
	_		
State Regulation			
State Right-to-Kn	IOW		
Massachuse	tts	Listed	
New Jersey		Listed	
Pennsylvania	3	Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classification:
Health:	3		Health:
Flammability:	0		Flammability:
Instability:	2		Physical:
International Inve	ntorios		
	sintones_		
Canada: DSL		On DSL	
EC-No:		231-208-1	

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.