

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	ALUMINUM CHLORIDE, USP
PRODUCT CODE	0685
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park
EMERGENCY PHONE	5-9 Ricketty Street, Mascot, NSW 2020 CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300
	NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
RECOMMENDED USES	Manufacturing and Compounding
RESTRICTIONS ON USE	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

Acute Toxicity - Oral (Category 5)

GHS CLASSIFICATION

Skin Irritation (Category 3) Eye Irritation (Category 2B) Sensitization - Skin (Category 1) Acute Aquatic Toxicity (Category 3) PICTOGRAM SIGNAL WORD Warning HAZARD STATEMENT(S) May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation. May cause an allergic skin reaction. May cause respiratory tract irritation. Harmful to aquatic life. ADVERSE PHYSIOCHEMICAL, HUMAN Not Applicable. HEALTH AND ENVIRONMENTAL **EFFECTS**



PRECAUTIONARY STATEMENT(S)	Prevention	Avoid b Contan Wear p	preathing dust, fur	after handling.Do not touch eyes. ne, gas, mist, vapors, and spray. ing should not be allowed out of the v ronment.	workplace.		
	Response	presen IF ON S	Remove contact lenses, if sts, get medical help. n occurs: Get medical help efore reuse.				
	Storage	Not applicable					
	Disposal	Dispos	Dispose of contents and/or container in accordance with local regulations.				
HMIS CLASSIFICATION	Health Hazard		1	Flammability	0		
	Reactivity		0	Personal Protection	E		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	Aluminum Chloride, Hexahydrate			
BOTANICAL NAME	Not applicable			
SYNONYM	Aluminum Chloride-6-Hydrate; Aluminum Trich	loride Hexahydrate		
CHEMICAL FORMULA	AICl3.6H2O			
CHEMICAL FAMILY	Not available			
CAS NUMBER	7784-13-6			
ALTERNATE CAS NUMBER	Not applicable			
MOLECULAR WEIGHT	241.4298			
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
	ALUMINUM CHLORIDE (Hexahydrate)	7784-13-6	231-208-1	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.					
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.					
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.					
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.					
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.					
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.					



SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable.
FLAMMABLE PROPERTIES	May be combustible at high temperature.
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	Small fire: dry chemical, CO ₂ or water spray. Large fire: dry chemical, CO ₂ , alcohol resistant foam or water spray. Do not get water inside containers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.						
METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers. Minimize generation of dust.						
CLEANUP PROCEDURE	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.						
REFERENCE TO OTHER SECTIONS	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.						

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
CONDITIONS FOR SAFE STORAGE	Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
STORAGE CONDITIONS	Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: ALUMINUM CHLORIDE (Hexahydrate) CAS #: 7784-13-6

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A



ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³

PERSONAL PROTECTIVE EQUIPMENT	 Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or 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. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.
SPECIFIC ENGINEERING CONTROLS	Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.
BIOLOGICAL MONITORING	Not available
CONTROL BANDING	Not available
NOTES	ACGIH/NIOSH recommended TWA/REL for Aluminum (as Al), Soluble Salts: 2 mg/m ³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid									
DESCRIPTION	White, or yellowish white, deliquescent, crystalline powder. Is practically odorless.									
SOLUBILITY	Very soluble in water; free	ly soluble in alcohol; soluble in gly	cerin.							
ODOR	Practically odorless									
FLAMMABILITY	May be combustible at hig	h temperature								
AUTO-IGNITION TEMPERATURE	Not available	BOILING POINT	(180 - 182.7)°C, (356-360.86)°F	DECOMPOSITION TEMPERATURE	100°C, 212°F					
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available					
log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	(190 -195)°C, (374-383)°F Decomposes					
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рН	2.5 - 3.5 (50 g/L, 20°C)					



RELATIVE DENSITY (WATER = 1)	2.398 - 2.440 g/mL (20°C)	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available		
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	0.003 - 1 Pa (20 - 58.4 °C)	VISCOSITY	Not available		
The physical data presented above are typical values and should not be construed as a specification.							

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Decomposes in hot water to produce hydrogen chloride.
CHEMICAL STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE MATERIALS	Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, aluminum oxides, hydrogen chloride and other gases may occur.
HAZARDOUS POLYMERIZATION	Will not occur.
POSSIBLITY OF HAZARDOUS REACTION	Not established.
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures. Avoid contact with water or moist air (deliquescent).

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): 3311 Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L): Not available				
SKIN CORROSION/IRRITATION	Aluminium chloride may cause skin irritation especially if applied to damp skin; this is attributed to the formation of hydrochloric acid. pH: 2.5 - 3.5 (50 g/L, 20 °C).				
SERIOUS EYE DAMAGE/EYE IRRITATION	May cause eye irritation. pH: 2.5 - 3.5 (50 g/L, 20 °C)				
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.				
SKIN SENSITIZATION	May cause an allergic skin reaction.				
GERM CELL MUTAGENICITY	Based on available data, the classification criteria are not met. DNA damage observed in mammalian cells.				
CARCINOGENICITY	OSHA	ALUMINUM CHLORIDE (Hexahydrate) is not listed.			
	NTP	ALUMINUM CHLORIDE (Hexahydrate) is not listed.			
	IARC	ALUMINUM CHLORIDE (Hexahydrate) is not evaluated.			
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.			
ADDITIONAL CARCINOGENICITY INFORMATION	Due to lack of data classification is not possible.				
REPRODUCTIVE TOXICITY	Due to lack of data classification is not possible.				
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Due to lack of da	ata classification is not possible.			



SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Due to lack of data classification is not possible.						
ASPIRATION HAZARDS	Due to lack of dat	Due to lack of data classification is not possible.					
SIGNS AND SYMPTOMS OF EXPOSURE	ROUTES OF EXPOSURE: Oral, Dermal, Inhalation, Eye contact EARLY ONSET SYMPTOMS RELATED TO EXPOSURE: Not available DELAYED HEALTH EFFECT FROM EXPOSURE: Not available Repeated or prolonged exposure may cause dermatitis						
POTENTIAL HEALTH EFFECTS	Inhalation Ingestion Skin Eyes	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. May be harmful if absorbed through skin. Causes mild skin irritation. May cause an allergic skin reaction. Causes eye irritation.					

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

PERSISTENCE AND DEGRADABILITY BIOACCUMULATIVE POTENTIAL MOBILITY IN SOIL OTHER ADVERSE EFFECTS LC50: 96 Hr: Fish: (mg/L): 0.078 - 218.6 EC50: 72 Hr: Algae: (mg/L): 0.2 - 4.98 Not available Not available Very soluble in water. Water solubility: 456 g/L (20°C) Not available.

EC50: 48 Hr: Crustacea: (mg/L): 1.5 - 27.3

This product is not intended to be released into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME	Not dangerous good
UN NUMBER	Not applicable
CLASS	Not applicable
PACKING GROUP	Not applicable
AUSTRALIA	
HAZCHEM	Not applicable



TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Listed

ENVIRONMENTAL HAZARDS SPECIAL SHIPPING INFORMATION Not available Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
ALUMINUM CHLORIDE (Hexahydrate) 7784-13-6	N/L	N/L	N/L	N/L	N/L	X*	X*	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ALUMINUM CHLORIDE (Hexahydrate) 7784-13-6	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ALUMINUM CHLORIDE (Hexahydrate) 7784-13-6	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL AGREEMENT

*Anhydrous Aluminum Chloride is listed.

SECTION 16: OTHER INFORMATION

REFERENCES

NOTES

Available upon request

Not applicable



ABBREVIATIONS AND ACRONYMS	ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS – Chemical Abstract Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; EC50 – Effective Concentration, 50%; EPA – Environmental Protection Agency; GHS – Global Harmonized System; HMIS – Hazardous Materials Information System; HSE – Health and Safety Executive; HSIS – Hazardous Substances Information System; IARC – International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN – Ready Biodegradability Model; ISS – Instituto Superiore Sanità; LC50 – Lethal Concentration, 50%; LD50 – Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; QSAR – Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA – Superfund Amendments and Reauthorization Act; STEL – Short Term Exposure Limit; TLV – Threshold Limit Value; TWA – Time Weighted Average; WHMIS – Workplace Hazardous Materials Information System					
LAST REVISION	02/2023					
SUPERSEDES	02/2021					
	For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com					
DISCLAIMER	This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.					
SUPPLEMENTARY INFORMATION	For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.					