



Centre Anti-Poison pour le Québec: (800) 463-5060
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ALUMINUM SULFATE (HYDRATE)		Product Use Laboratory use	
Chemical formula Al ₂ (SO ₄) ₃ ·14H ₂ O		Product code AP-0121	Molar weight 342,15
Chemical name / Commercial name / Synonymous ALUM, ALUMINUM SULFATE OCTADECALHYDRATE, ALUMINUM TRISULFATE, SULFURIC ACID ALUMINUM SALT, CAKE ALUM, PATENT ALUM			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 1/3/2019	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Skin corrosion/irritation - Skin irritation category 2 Lésions oculaires graves/irritation oculaire category 2B
Signal Word	WARNING
Hazards statements (H)	H315 Causes skin irritation. H320 Causes eye irritation.
Precautionary statements (P)	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P264 Wash the areas of the body that have been in contact with the product after handling. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see section 4 of the SDS and on this label). P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 2 Fire 1 Reactivity 1 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Sulfate d'aluminium hydrate	16828-12-9	<=100

SECTION 04 - FIRST AID MEASURES

Si contact avec yeux	See a doctor.
Si contact avec peau	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Si inhalé	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Si avalé	If the person is conscious, drink water and do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Symptômes et effets les plus importants (aigus et retardés)	Ref. section 11.
Prise en charge médicale immédiate ou traitement spécial, si nécessaire	In case of medical consultation, keep this sheet available.
Conseils généraux	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Inflammabilité	No
Conditions d'allumage	It is not considered flammable, but can burn at high temperatures.
Agents d'extinction appropriés	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Agents d'extinction inappropriés	Do not use a heavy water stream.
Produits de combustion / décomposition dangereux	Forms aluminum oxide, sulfur dioxide and / or sulfur trioxide temperatures above 760 ° C (1400 ° F) or when dry alum is enclosed in a fire involving other fire.
Dangers spéciaux de feu et d'explosion	May react violently with incompatible products (ref .Section 10)
Équipements de protection spéciaux / précautions spéciales pour pompiers	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus. Use a spray or mist of water to cool exposed containers. In case Large fire and if large quantities: Evacuate the area. Fight the fire from a distance because of the risk explosion.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Méthodes et matériaux pour confinement et nettoyage, précautions individuelles équipement de protection et mesures d'urgence	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions d'entreposage	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products.
Méthode et équipement de manutention	Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control Citric acid	
ALUMINIUM SULFATE HYDRATE	16828-12-9	No data available	TLV, TWA, STEL	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		No data available	TLV, TWA, STEL	Canada. British Columbia OEL
		No data available	TLV, TWA, STEL	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

Ventilation	Use fan.
Respiratoire	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gants	Handle with gloves.
Yeux	Safety goggles with safety shutters.
Chaussures	Use safety shoes.
Vêtements	Labcoat.
Contrôle d'ingénierie	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

État physique	Solid.
Appearance	Poudre ou granules de blanc à blanc cassé.
Odeur	Donnée non disponible.
Odour threshold	Data not available
pH	> 2.9 à 5%.
Melting point / Freezing point	86°C
Initial boiling point	117°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Inflammabilité	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	Data not available
Solubilité	Soluble dans l'eau..
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Réactivité	Non-reactive under normal conditions.
Stabilité chimique	Stable under recommended storage conditions.
Risque de réactions dangereuses	Stable under normal conditions.
Conditions d'instabilité (Incluant sensibilité aux chocs / décharge statique / vibrations)	Sun exposure. Heat, flames and sparks. Avoid contact with incompatible materials and extreme temperatures. Avoid moisture.
Substances incompatibles	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates). Strong bases. Sodium, Sodium Oxides, Potassium. Aluminum and Zinc (especially in the presence of water or moisture).
Produits de décomposition dangereux	Hazardous decomposition products formed under fire conditions. Toxic vapors of sulfur oxides and aluminum oxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

ALUMINUM SULFATE (HYDRATE)

Premières voies d'absorption	Ingestion, inhalation, skin and eyes.
Effets / symptômes de l'exposition aiguë :	By exposure route below.
- Yeux	Causes serious eye irritation.
- Peau	Causes skin irritation.
- Respiration	Irritation of the mucous membranes and respiratory tract. Nervous disorders, dizziness, cough, dyspnea, headache, nausea and vomiting.
- Ingestion	Irritation of the mucous membranes. Nervous disorders, gastrointestinal disorders, cramps, diarrhea, headache, convulsions, nausea and vomiting.
Effets / symptômes de l'exposition chronique	Sensation de brûlure, troubles nerveux, vertiges, maux de tête, toux, dyspnée, laryngite, perte d'appétit, nausées et vomissements.
DL₅₀ (spécifier l'espèce et voie d'entrée)	DL50 Oral - Mouse - 6207 mg/Kg LD50 Dermal - Data not available.
CL₅₀ (spécifier l'espèce et voie d'entrée)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Information écologique disponible	No
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SECTION 13 - DISPOSAL CONSIDERATIONS

Mesures pour l'élimination	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Emballage contaminé	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Skin corrosion/irritation - Skin irritation category 2 Lésions oculaires graves/irritation oculaire category 2B
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SECTION 16 - OTHER INFORMATION

Further information

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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