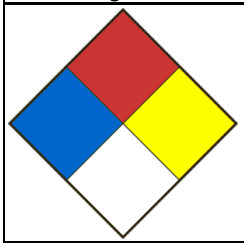
Centre Anti-Poison pour le Québec: (800) 463-5060
Tél. (Qc): (418) 660-8666 / 800-890-8666
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ALUMINUM HYDROXIDE (ANHYDROUS)		**Product Use** Laboratory use	
Chemical formula $Al(OH)_3$		**Product code** AR-0986	**Molar weight** 78
Chemical name / Commercial name / Synonymous ALUMINIUM TRIHYDROXIDE, ALUMINIUM OXIDE TRIHYDRATE, ALUMINIC ACID, ALUMINA TRIDYDRATE, ALUMINE HYDRATÉE			
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 11/25/2019	**SDS Prepared by** Laboratoire MAT	**E-Mail** labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Not a hazardous substance according to WHMIS 2015
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	**Health** 1 **Fire** 0 **Reactivity** 0 **Special danger**

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Hydroxyde d'aluminium anhydre	21645-51-2	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Aluminium oxides.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). Keep product and empty containers away from heat and sources of ignition.
Special protective equipment and precautions for firefighters	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.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personnal precautions, protective equipment	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. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.
Methods of handling	Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust formation. Avoid contact with the skin, eyes and clothes.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	**CAS-No.**	**Control**	**Value**	**Basis**
ALUMINIUM HYDROXIDE ANHYDROUS	21645-51-2	VEMP	10 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Remark	The standard corresponds to dust containing no asbestos and whose percentage of crystalline silica is less than 1%.			
		TWA	1 mg/m3	Canada. British Columbia OEL

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	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

Physical state	Solid.
Appearance	Poudre blanche.
Odour	inodore.
Odour threshold	Data not available
pH	env.8 - 9 à 100 g/l à 20 °C.
Melting point / Freezing point	300°C
Initial boiling point	2980°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	< 0.1 hPa à 20 °C.
Vapour density	Data not available
Relative density	2.42g/ml
Solubility	Insoluble dans l'eau. Soluble dans les solutions alcalines et les solutions acides..
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	env.150 - 300°C
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions. Exothermic reactions with: Strong acids.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat. Avoid dust formation.
Incompatible material	This product is incompatible with these substances: Chlorinated rubber. A mixture of bismuth hydroxide and aluminum hydroxide co-precipitated and reduced by hydrogen to 170-210 degrees Celsius is spontaneously flammable in air at room temperature. It absorbs acids and carbon dioxide. It forms a gel with prolonged contact with water. Strong oxidizing agents.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Aluminium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

ALUMINUM HYDROXIDE (ANHYDROUS)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Aluminum dust can cause mechanical eye irritation.
- Skin	To our knowledge, the product has not been fully studied.
- Inhalation	Aluminum dust can cause mechanical irritation of the respiratory tract.
Acute toxicity (Ingestion)	To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Aluminum hydroxide influences (increases, decreases or delays) the absorption of several drugs. Dusts and aluminum oxides can cause lung effects (pulmonary fibrosis, chronic bronchitis). Several studies have reported respiratory effects such as pulmonary fibrosis and pneumonicosis known as aluminosis or Shaver's disease. Aluminosis is the appearance of peripheral emphysema with preponderance for the upper lobes and frequent microhemorrhages that can cause pneumothorax. Exposure to aluminum, mainly in smelters and foundries, can cause neurological disorders. Symptoms of headache, disorientation, memory loss, emotional disturbances and seizures have been reported in workers following repeated inhalation exposures. Some cases of workers highly exposed to aluminum have developed neurological disorders resulting in inter alia by erratic movements, muscle weakness, especially in fine movements, in addition to memory problems and language.
DL50 (specify species and route of entry)	LD50 Oral - Rat - Female - >2000 mg/kg LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	CL50 inhalation - Rat 888 - 2300 mg/m3 - 4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Available ecological information	No

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	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	Not a hazardous substance according to WHMIS 2015

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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