

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				Product Use		
ZINC SULFATE (HEPTAHYDRATE)				Laboratory use		
Chemical formula				Product code	Molar weight	
ZnSO <sub>4</sub> .7H <sub>2</sub> O				ZR-0105 ; ZU-0891	287,54	
Chemical name / Commerci SULFATE DE ZINC H HEPTAHYDRATE		LFATE HEPTAHYDR	ATE, VITRIOL BLANC	C, VITRIOL DE ZINC, SULFURIC	ACID ZINC SALT	
Supplier's name			Address-Street			
Laboratoire MAT			610, Adanac Street			
City			Province			
Québec			Québec	Québec		
Postal code	Internet	Internet		Phone number		
G1C 787	www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone	CANUTEC: 6	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060		
Date SDS SDS Prepared by		SDS Prepared by		E-Mail		
12/20/2018 Laboratoire M		Laboratoire MA	ΔТ	labmat@labmat.com		

# **SECTION 02 - HAZARDS IDENTIFICATION**

Classification WHIMS / GHS	Serious eye dam	nage/eye irritation - Serious eye damage category 1
	Acute toxicity - C	Dral category 4
Signal Word	DANGER	
Hazards statements (H)	H302 Harmful if	swallowed.
	H318 Causes ser	rious eye damage.
Precautionary statements (P)	P264	Wash the areas of the body that have been in contact with the product after handling.
	P270	Do no eat, drink or smoke when using this product.
	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.
	P310	Immediately call a POISON CENTER or doctor/physician.
	P330	Rinse mouth.
	P501	Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.
	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
PICTOGRAMS		
Other dangers	•	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health	2
	Fire (	0
	Reactivity	0
	Special danger	

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Sulfate de zinc heptahydrate	7446-20-0	<=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, drink water and induce vomiting. 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 Zinc/zinc oxides Sulphur oxides
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
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	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Pick
containment and cleaning up /	up with a shovel or broom, taking care not to scatter dust. Dilute residues with water, clean and
Personnal precautions, protective	rinse. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let
equipment	product enter drains.

# SECTION 07 - HANDLING AND STORAGE

	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
•	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.

# SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Workplace control parameters

Components	CAS- No.	Value	Control Citric acid	
ZINC SULFATE HEPTAHYDRATE	7446- 20-0	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		Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

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.
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 cristalline de couleur blanche-
Odour	Donnée non disponible.
Odour threshold	Data not available
рН	Solution aqueuse = pH ~4.5.
Melting point / Freezing point	100°C
Initial boiling point	Data not available
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	Data not available
Vapour density	Data not available
Relative density	1.957g/cm <sup>3</sup>
Solubility	Soluble dans l'eau. Insoluble dans l'alcool.
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

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	This product quickly absorbs moisture from the air. Hygroscopic.
Incompatible material	Strong oxidizing agents, heat and moisture.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of sulfur oxides Zinc/zinc oxides.

# SECTION 11 - TOXICOLOGICAL INFORMATION

#### ZINC SULFATE (HEPTAHYDRATE)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation.
- Skin	Harmful if absorbed through skin May cause skin irritation.
- Inhalation	May be harmful if inhaled. Irritation of the mucous membranes and respiratory tract. Nervous disorders, cough, dyspnea, headache, dizziness, seizures, nausea and vomiting.
Acute toxicity (Ingestion)	Harmful if swallowed. Irritation of the mucous membranes. Nervous disorders, abdominal pain, cramps, diarrhea, diaphoresis, headache, nausea and vomiting, dizziness, convulsions, respiratory collapse, unconsciousness and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, nervous disorders, lung damage, chest pain, cough, dyspnea, laryngitis, dizziness, headache, loss of appetite, convulsions, nausea and vomiting.
DL50 (specify species and route of entry)	Data based on the anhydrous product: LD50 Oral - rat - 2,150 mg/kg. LD50 Dermal - Rat - 2000 mg/kg
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

# SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: mortality LC50 - other fish - 1 - 10 mg/l - 96.0 h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# SECTION 13 - DISPOSAL CONSIDERATIONS

	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	3077	
UN Proper shipping name	MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, SOLIDE, N.S.A.	
Transport hazard class(es)	9 Miscellaneous dangerous goods/hazardous material	
Packing group	Ш	
Limited quantity index	5kg	
ERAP Index	-	
Special precautions	16;99	

### **SECTION 15 - REGULATORY INFORMATION**

WHIMS CANADA

Serious eye damage/eye irritation - Serious eye damage category 1

Acute toxicity - Oral category 4

# **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.

Last Update: 12/20/2018