



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

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier MAGNESIUM (RIBBON)		Product Use Laboratory use	
Chemical formula Mg		Product code MR-0900	Molar weight 24,31
Chemical name / Commercial name / Synonymous MAGNESIUM (RIBBON)			
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 2/18/2019	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Flammable solids category 1 Substances and mixtures which, in contact with water, emit flammable gases category 1
Signal Word	DANGER
Hazards statements (H)	H228 Flammable solid. H260 In contact with water releases flammable gases which may ignite spontaneously.
Precautionary statements (P)	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire. P231 + P232 Handle under inert gas. Protect from moisture. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P370 + P378 In case of fire: Use special powder for metal fires; do not use water for extinction. P402 + P404 Store in a dry place. Store in a closed container. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)
	Health 0 Fire 2 Reactivity 1 Special danger EAU

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Magnésium (ruban)	7439-95-4	<=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	If breathing is difficult, give oxygen. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Induce vomiting. 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	Yes
Ignition conditions	Heat, sparks and open flame. Flammable in the presence of a source of ignition, through friction or retained heat. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use only a class D fire extinguisher to extinguish the fire.
Unsuitable extinguishing media	Do not use water. Do not use carbon dioxide.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. - Magnesium oxide.
Special fire and explosion hazards	This metal reacts strongly with water to release hydrogen, a flammable and explosive gas. Violent reactions with acids, acid chlorides, ammonium nitrate, arsenic, carbonates, cupric oxide and sulphate, mercuric oxide, halogenated metals, phosphates and chlorinated solvents.
Special protective equipment and precautions for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personal precautions, protective equipment	Evacuate personnel to safe areas. Cut off all sources of ignition. Pick up with a broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. When handling, wear appropriate safety equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Air and moisture sensitive.
Methods of handling	Provide appropriate exhaust ventilation at places where dust or vapor is formed. Keep away from sources of ignition - No smoking. Avoid formation of dust and aerosols.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Magnesium	7439-95-4	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	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	Ruban de couleur gris argenté.
Odour	Donnée non disponible.
Odour threshold	Data not available
pH	Métal ayant des propriétés alcalines.
Melting point / Freezing point	648°C
Initial boiling point	1100°C
Boiling range	Data not available
Flash point	636°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	1.0 mm @ 621°CmmHg
Vapour density	Data not available
Relative density	1.74g/cm ³
Solubility	Décompose dans les acides. Insoluble dans l'eau.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	510°C
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	Reacts violently with water.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Exposure to moist air or water.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), acids and chlorides of acids, ammonium nitrate, arsenic, carbonates, oxide and cupric sulphate, mercuric oxide, halogenated metals, phosphates, chlorinated solvents, water, heat and moisture.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Magnesium oxide. Flammable and explosive vapors of hydrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

MAGNESIUM (RIBBON)

Routes of exposure	Ingestion and inhalation.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Irritation.
- Inhalation	Inhalation of combustion vapors may cause irritation of the mucous membranes and respiratory tract with fever and blood disorders (leukocytosis).
Acute toxicity (Ingestion)	Irritation and burning of the mucous membranes. Dysphagia, internal lesions, abdominal pain, cramps, diarrhea, headache, nausea and vomiting, convulsions, hypotension, asystole and respiratory arrest, coma and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, headache and fatigue.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 2000 mg/kg. LD50 Dermal - Rat - 2000 mg/kg
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 2.1 mg/L.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Data not available.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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	1869
UN Proper shipping name	MAGNÉSIUM, sous forme de granulés, de tournures ou de rubans
Transport hazard class(es)	4.1 Flammable solids
Packing group	III
Limited quantity index	5kg
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable solids category 1 Substances and mixtures which, in contact with water, emit flammable gases category 1
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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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