SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	SULFUR (PIECES)
Other identification (Chemical name, Commercial name, Synonymous)	SULFUR, SULPHUR, SOUFRE EN MORCEAUX
Product code	SP-0189
Chemical formula	S
Molar weight	32.06
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2026-09-03

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Flammable solids - category 2
- Skin corrosion/irritation - Skin irritation - category 2

PICTOGRAMS



Signal Word

ATTENTION

Hazards statements (H)

- Flammable solid
- Causes skin irritation

Precautionary statements (P)

- Keep away from heat, sparks, open flames, hot surfaces. — No smoking.
- Ground and bond container and receiving equipment.
- Use explosion-proof equipment.
- Wear protective gloves (nitrile, butyle, neoprene), protective clothing and eye and face protection.
- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- Wash thoroughly after handling.
- IF ON SKIN: Wash with plenty of water
- Specific treatment (see section 4 on the SDS on this label).
- If skin irritation occurs: Get medical attention.
- Take off contaminated clothing and wash before re-use.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)

Health	2
Fire	2
Reactivity	0
Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
Sulfur	7704-34-9	<=100%

SECTION 04 - FIRST AID MEASURE

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 contaminated 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, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects (acute and delayed)

Main symptoms of high exposure: Skin irritation. Irritatation of the respiratory system. Skin sensitizer. Metabolic acidosis. Diarrhea. Ref. section 11.

Immediate medical attention and special treatment, if necessary

Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Do not use a jet of water.
Combustion products	Hazardous combustion products formed under fire conditions: Sulfur oxides. Hydrogen sulfide.
Specific hazards of the dangerous product	May form combustible dust concentrations in the air. 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

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust. Avoid the accumulation of charges electrostatic.
Methods and materials for containment and cleaning up	Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Dilute residues with water, clean and rinse. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
Methods of handling	Avoid contact withh eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Component	CAS-No.	Value
Sulfur	7704-34-9	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

Respiratory	If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
Gloves	Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.
Eyes	Safety goggles with safety shutters.
Shoes	Use safety shoes.
Clothes	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	Use fan. 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
Color	Yellow
Odour	Odorless (rotten eggs if hydrocarbides present)
Odour threshold	Inodore
Melting point and freezing point	113-117°C
Boiling point	444°C
Flammability	Data not available
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Flash point	160°C
Auto-ignition temperature	232 °C
Decomposition temperature	Data not available
pH	Data not available
Kinematic viscosity	Not applicable
Solubility	Insoluble in water. Soluble in benzene, carbon disulfide and toluene.
Partition coefficient water/n-octanol	Data not available
Vapour pressure	3.95X10-6 mm Hg at 30.4 °C
Relative density	1.96-2.07g/cm3
Vapour density	Data not available
Particle characteristics	Flakes ~ 1-4mm

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. Flammable product, may ignite with source of ignition, if temperature above flash point.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances. May form combustible dust concentrations in the air.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials. Avoid dust formation. Chocs sensitive.
Incompatible materials	Oxydants. Reducing agents. Metal oxides. Stainless. Copper. Metal powders. Hydrocarbides. Heat and humidity. Violent reaction with: Ammonia. Charcoal. Carbon black.
Hazardous decomposition products	Sulfur oxides. Hydrogen sulfide.

SECTION 11 - TOXICOLOGICAL INFORMATION

SULFUR (PIECES)

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation. Inflammation of the conjunctiva.
- Skin	Irritation. Dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Spasms. Cough. Dyspnoea. Headaches.
Acute toxicity (Ingestion)	Mucous membrane irritation. Gastrointestinal disorders. Cramps. Diarrhea. Headaches. Dizziness. Salivation. Sweating, Convulsions. Nausea and vomiting.
Chronic exposure effects / symptoms	Burning sensation. Dermatitis. Conjunctivitis. Headache. May cause: Skin sensitization. Skin allergy.
DL50 (specify species and route of entry)	LD50 Oral - Rat - >5000mg/kg. LD50 Dermal - Rabbit - >2000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4 h - > 9.23 mg/l.

SECTION 12 - ECOLOGICAL INFORMATION

SULFUR (PIECES)

Ecotoxicity	Toxicity to fish: LC50 - Danio rerio (zebra fish) - 866 mg/l; 96 h. Toxicity to daphnia and other aquatic invertebrates: EC0 - Daphnia magna (Water flea) - > 10,000 mg/l; 24 h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1350
UN Proper shipping name	SULFUR
Transport hazard class(es)	Flammable solids 4.1
Packing group	III
Limited quantity index	5 kg
ERAP Index	-
Special precautions	33

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Flammable solids - category 2
- Skin corrosion/irritation - Skin irritation - category 2

SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail
NIH: National institute of health (U.S. Naltional Library of Medecine)
ECHA: Agence Européenne de Chimie
ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
VECD: Valeur d'exposition courte durée
VEMP: Valeur d'exposition moyenne pondérée
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TLV : Threshold limit value
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
RSST: Règlement sur la santé et sécurité au travail (Québec)
INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

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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