



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	LEAD(II) SULFATE
Other identification (Chemical name, Commercial name, Synonymous)	LEAD SULFATE; SULFATE DE PLOMB.
Product code	PP-0226
Chemical formula	PbSO_4
Molar weight	303.25
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	2026-06-26

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Acute toxicity - Inhalation - category 4
- Acute toxicity - Oral - category 4
- Reproductive toxicity - category 1A
- Specific Target Organ Toxicity - Repeated exposure - category 2
- Carcinogenicity - category 1B

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Harmful if inhaled
- Harmful if swallowed
- May damage fertility or the unborn child
- May cause damage to organs through prolonged or repeated exposure
- May cause cancer

Precautionary statements (P)

- Avoid breathing mists, gases, vapors and other fumes, or the product itself.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF exposed or if you feel unwell: Call a POISON CENTER or a physician.
- Store locked up.
- Do not breathe mists, gases, vapors and other fumes, or the product itself.
- Get medical attention if you feel unwell.

Other dangers

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

Health 3
Fire 0
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
LEAD(II) SULFATE	7446-14-2	<=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: Gastrointestinal disorders. Nausea and vomiting. Diarrhea. Kidney damage. Anemia. Neurological disorders. Death. 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	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Lead oxide.
Specific hazards of the dangerous product	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.
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. 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 with 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. Avoid the formation of dust.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Components	CAS-No.	Control parameters	Value	Basis
LEAD(II) SULFATE	7446-14-2	TWA	0.05 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	It is recognized as probably carcinogenic to humans (Group 2A) by the IARC.			
			0.05 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	0.05 mg/m3	Canada. Ontario Reg.833
				Canada. British Columbia OEL

Data origin Alberta OELs. RSST. Ontario Regulation 833. Worksafebc.com

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	White.
Odour	Data not available
Odour threshold	Data not available
Melting point and freezing point	1170 °C.
Boiling point	Data not available
Flammability	No.
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Flash point	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
pH	Data not available
Kinematic viscosity	Not applicable.
Solubility	Insoluble in water.
Partition coefficient water/n-octanol	Data not available
Vapour pressure	Data not available
Relative density	6.2g/cm ³ .
Vapour density	Data not available
Particle characteristics	Crystal powder.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures.
Incompatible materials	Metallic carbides. Metal powders. Strong acids. Strong bases.
Hazardous decomposition products	Lead oxyde.

SECTION 11 - TOXICOLOGICAL INFORMATION

LEAD(II) SULFATE

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below. The symptoms may vary depending on the duration and concentration of the product.
- Eyes	Irritation. Can cause a moderate pus-filled reaction and general inflammation of the rabbit's eye.
- Skin	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
- Inhalation	Headaches. Dizziness. Muscular weakness. Muscle aches. Insomnia. Brain damage. Convulsions. Confusion. Coma. Can lead to death.
Acute toxicity (Ingestion)	Abdominal pain. Diarrhea. Weight loss. Muscular weakness. Headaches. Nausea and vomiting. Black poop.
Chronic exposure effects / symptoms	Is recognized as probably carcinogenic agent for humans (class 2A IARC) - Group 2A. The symptoms can vary depending on the duration and concentration of the product. Headache. Nausea and vomiting. Weight loss. Lead poisoning. Muscle weakness. Abdominal pain. Muscle pain. A blue pigmentation on the gums. Convulsions. Confusion. Kidney damage. Coma.
DL50 (specify species and route of entry)	LD50 Oral - Data not available. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

LEAD(II) SULFATE

Ecotoxicity	Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 392 ug/48H.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Is not likely mobile in the environment due its low water solubility.
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	3077
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(lead sulfate)
Transport hazard class(es)	Various products, materials or organisms 9
Packing group	III
Limited quantity index	5 kg
ERAP Index	-
Special precautions	16,99

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	- Acute toxicity - Inhalation - category 4 - Acute toxicity - Oral - category 4 - Reproductive toxicity - category 1A - Specific Target Organ Toxicity - Repeated exposure - category 2 - Carcinogenicity - category 1B
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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. National Library of Medicine)
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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