



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

Tél. (Qc): (418) 660-8666 / 800-890-8666

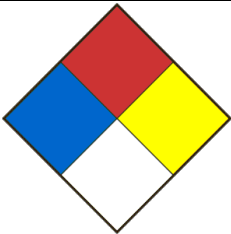
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier POTASSIUM BROMATE		Product Use Laboratory use	
Chemical formula KBrO ₃		Product code PR-0171	Molar weight 167,01
Chemical name / Commercial name / Synonymous POTASSIUM BROMATE, BROMIC ACID POTASSIUM SALT			
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 10/3/2019	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Oxidizing solids category 1 Acute toxicity - Oral category 3 Carcinogenicity category 1A	
Signal Word	DANGER	
Hazards statements (H)	H271 May cause fire or explosion; strong oxidiser. H301 Toxic if swallowed. H350 May cause cancer.	
Precautionary statements (P)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P220 Keep/Store away from clothing and combustible materials. P264 Wash the areas of the body that have been in contact with the product after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P283 Wear fire/flame resistant/retardant clothing. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P308 + P313 IF exposed or concerned: Get medical advice/attention. P321 Specific treatment (see section 4 of the SDS and on this label). P330 Rinse mouth. P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction. P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. P420 Store away from other materials.	
PICTOGRAMS		
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)	
	Health 2 Fire 0 Reactivity 3 Special danger OX	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Bromate de potassium	7758-01-2	<=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. - Potassium oxides. Gaseous hydrogen bromide and/or bromine.
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 / Personnel 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 and store away from heat and moisture. Store in a well-ventilated area. Do not store near combustible materials.
Methods of handling	Avoid contact with the skin, eyes and clothes. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Avoid formation of dust and aerosols. Keep away from sources of ignition - No smoking.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control Citric acid	
Potassium bromate	7758-01-2	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	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	Use 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 cristalline de couleur blanche-
Odour	inodore.
Odour threshold	Donnée non disponible-
pH	Solution à 5% = pH 5.0 - 9.0.
Melting point / Freezing point	350°C (dec)
Initial boiling point	Donnée non disponible-
Boiling range	Donnée non disponible-
Flash point	Donnée non disponible-
Evaporation rate	Donnée non disponible-
Flammability	No
Lower flammable / Explosive limit	Donnée non disponible-
Upper flammable / Explosive limit	Donnée non disponible-
Vapour pressure	Donnée non disponible-
Vapour density	Donné non disponible-
Relative density	3.27g/ml
Solubility	Soluble dans l'eau. Peu soluble dans l'alcool.
Partition coefficient water/n-octanol	Donnée non disponible-
Auto-ignition temperature	Donnée non disponible-
Decomposition temperature	370°C
Viscosity	Donnée non disponible-

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions. Oxidizer: Fire hazard in case of contact with combustible / organic substance.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat and humidity. Combustible material.
Incompatible material	Heat, reducing agents, fine metal powders, aluminum, arsenic, carbon, copper, dinitrotoluene, phosphorus, lead acetate, sulfur, metal sulfides, selenium, organic and combustible materials. Acids.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Potassium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

POTASSIUM BROMATE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing.
- Skin	May cause skin irritation. May be harmful if absorbed through skin.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, cough, dyspnea, headache, dizziness, seizures, nausea and vomiting. May be harmful if inhaled.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Kidney damage, gastrointestinal disorders, cramps, diarrhea, headache, dizziness, nausea and vomiting, convulsions, collapse, methemoglobinemia, coma and can lead to death. May be harmful if swallowed.
Chronic exposure effects / symptoms	Is recognized as a possible carcinogen for humans (class 2B) by IARC. Burning sensation, dermatitis, watery eyes, nervous disorders, kidney damage, cough, dyspnea, headache, nausea and vomiting, loss of appetite, anemia and methemoglobinemia. Absorption in the body leads to the formation of methemoglobin which in insufficient concentration causes cyanosis. It can appear after 2 to 4 hours or more.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 157 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

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	1484
UN Proper shipping name	BROMATE DE POTASSIUM
Transport hazard class(es)	5.1 Oxidizing substances
Packing group	II
Limited quantity index	1kg
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Oxidizing solids category 1 Acute toxicity - Oral category 3 Carcinogenicity category 1A
--------------	--

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: 10/3/2019