



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

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


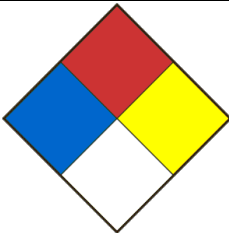
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM PERCHLORATE MONOHYDRATE		Product Use Laboratory use	
Chemical formula NaClO <sub>4</sub> ·H <sub>2</sub> O		Product code SR-0144	Molar weight 140,46
Chemical name / Commercial name / Synonymous SODIUM PERCHLORATE MONOHYDRATE, PERCHLORIC ACID SODIUM SALT MONOHYDRATE			
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 8/17/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	Oxidizing solids category 1 Acute toxicity - Oral category 4	
<b>Signal Word</b>	DANGER	
<b>Hazards statements (H)</b>	H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed.	
<b>Precautionary statements (P)</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P220 Keep/Store away from clothing and combustible materials. P280 Wear protective gloves/protective clothing/eye protection/face protection. P283 Wear fire/ flame resistant/retardant clothing. P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. 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. 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. 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. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.	
<b>PICTOGRAMS</b>		
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)	
	<b>Health</b> 2 <b>Fire</b> 0 <b>Reactivity</b> 2 <b>Special danger</b> OX	

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Perchlorate de sodium monohydrate	7791-07-3	<=100

## SECTION 04 - FIRST AID MEASURES

<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available.
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Ignition conditions</b>	May cause fire on contact with organic material.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion / decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides Chlorine gas.
<b>Special fire and explosion hazards</b>	May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	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

<b>Methods and materials for containment and cleaning up / Personnel precautions, protective equipment</b>	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.
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## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Strongly hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials.
<b>Methods of handling</b>	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Keep away from sources of ignition - No smoking. Avoid contact with the skin, eyes and clothes. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control	Value	Basis
SODIUM PERCHLORATE MONOHYDRATE	7791-07-3	TLV, TWA, STEL	No data available	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TLV, TWA, STEL	No data available	Canada. British Columbia OEL
		TLV, TWA, STEL	No data available	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

<b>Ventilation</b>	Use fan.
<b>Respiratory</b>	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	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

<b>Physical state</b>	Solid.
<b>Appearance</b>	Cristalline blanche.
<b>Odour</b>	inodore.
<b>Odour threshold</b>	Data not available
<b>pH</b>	6.0-8.0 @ 5% aq.sol. (25°C).
<b>Melting point / Freezing point</b>	130°C
<b>Initial boiling point</b>	Data not available
<b>Boiling range</b>	Data not available
<b>Flash point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability</b>	No
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Vapour density</b>	Data not available
<b>Relative density</b>	2.020g/cm <sup>3</sup>
<b>Solubility</b>	Soluble dans l'eau..
<b>Partition coefficient water/n-octanol</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	>482°C
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions. Hygroscopic. Oxidizer: Fire hazard in case of contact with combustible / organic substance.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions. May react violently with incompatible substances. Oxidizer.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Exposure to moist air or water. Combustible material. Avoid excessive heat.
<b>Incompatible material</b>	Organic materials, Strong acids, Forms shock-sensitive mixtures with certain other materials. powders Metals, Reducing agents, magnesium.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides Gaseous chlorine.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM PERCHLORATE MONOHYDRATE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	May cause eye irritation.
<b>- Skin</b>	May be harmful if absorbed through the skin. Provoke a skin irritation.
<b>- Inhalation</b>	May be harmful if inhaled. Causes irritation of the respiratory system.
<b>Acute toxicity (Ingestion)</b>	May be harmful if swallowed.
<b>Chronic exposure effects / symptoms</b>	Following chronic exposure, fatigue, anorexia, weight loss, increased body temperature and cardio-respiratory rate (caused by inflammation), and progressive neuromuscular weaknesses can be observed. . There may be liver and kidney damage, variation in blood bichemic parameters (hypertriglyceridemia) and peripheral nervous system involvement. The product is often contaminated by impurities that can cause cutaneous (chloracne) pulmonary and thyroid effects. Target organs: Thyroid.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 2,100 mg/kg LD50 Dermal - Rabbit - > 2000 mg / kg
<b>CL50 (specify species and route of entry)</b>	LC50 - Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Available ecological information</b>	No
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## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

<b>UN Number</b>	1502
<b>UN Proper shipping name</b>	PERCHLORATE DE SODIUM
<b>Transport hazard class(es)</b>	5.1 Oxidizing substances
<b>Packing group</b>	II
<b>Limited quantity index</b>	1kg
<b>ERAP Index</b>	-
<b>Special precautions</b>	-

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Oxidizing solids category 1 Acute toxicity - Oral category 4
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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.

**Last Update: 8/17/2020**