



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

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


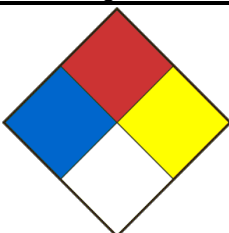
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM CHLORATE		Product Use Laboratory use	
Chemical formula NaClO <sub>3</sub>		Product code SR-0132; SR-0932	Molar weight 106,44
Chemical name / Commercial name / Synonymous CHLORATE OF SODA (DOT), CHLORAX, CHLORATE SALT OF SODIUM, UNITED CHEMICAL DEFOLIANT No.1, ASEX DISODIUM CHROMATE, CHROMIUM SODIUM OXIDE, CHROMIUM DISODIUM OXIDE			
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 9/28/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	Acute toxicity - Oral category 4 Lésions oculaires graves/irritation oculaire category 2B Oxidizing solids category 1
<b>Signal Word</b>	DANGER
<b>Hazards statements (H)</b>	H302 Harmful if swallowed. H320 Causes eye irritation. H271 May cause fire or explosion; strong oxidiser.
<b>Precautionary statements (P)</b>	<p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P330 Rinse mouth.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P220 Keep/Store away from clothing and combustible materials.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P283 Wear fire/ flame resistant/retardant clothing.</p> <p>P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P420 Store away from other materials.</p>
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p><b>Health</b> 1</p> <p><b>Fire</b> 0</p> <p><b>Reactivity</b> 1</p> <p><b>Special danger</b> OX</p>

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Chlorate de sodium	7775-09-9	<=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>	May cause methemoglobinemia, which results in a generalized slate gray color of the skin. 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>	Not flammable or combustible.
<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 products</b>	Hazardous combustion products formed under fire conditions: - Hydrogen chloride gas, Sodium oxides.
<b>Special fire and explosion hazards</b>	This product may ignite organic and combustible materials. May ignite or explode on contact or in combination with: aluminum, metal cyanides, ammonium salts, powdered metals, arsenic trioxide, phosphorus, silicone, sulfur, sulphides and concentrated sulfuric acid. Product heated in the presence of sodium phosphinate or mixed with absorbent organic materials such as wood, paper, leather, flour and sugar may cause ignition or explosion. 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. Avoid breathing vapors, mist or gas. 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>	Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Do not store near combustible materials.
<b>Methods of handling</b>	Avoid contact with the skin, eyes and clothes. Provide appropriate exhaust ventilation at places where dust is formed. Avoid formation of dust and aerosols. Keep away from sources of ignition - No smoking. 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 CHLORATE	7775-09-9	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

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	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	Cristalline incolore.
Odour	inodore.
Odour threshold	Data not available
pH	La solution aqueuse est neutre.
Melting point / Freezing point	248 - 261°C
Initial boiling point	Data not available
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	2.49g/cm <sup>3</sup>
Solubility	Soluble dans l'eau et l'alcool, dans l'ammoniac liquide et la glycérine.
Partition coefficient water/n-octanol	log Pow : -2.9 à 20°C-
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Oxidizer: risk of fire in case of contact with combustible / organic substance.
<b>Chemical stability</b>	Stable under recommended storage conditions. Oxidizer: Fire hazard in case of contact with combustible / organic substance.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Avoid excessive heat and contaminations of all kinds. Sensitive to friction. Chocs sensitive. Heat, flames and sparks.
<b>Incompatible material</b>	Strong reducing agents, organic products and alcohols. Ammonium salts, metal powders, arsenic trioxide, phosphorus, silicone, sulfur, sulphides, concentrated sulfuric acid. Ammoniac.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM CHLORATE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Irritation and burns that may cause permanent eye damage.
<b>- Skin</b>	Very destructive effects for the skin. Severe irritation if absorbed through the skin.
<b>- Inhalation</b>	Destructive for the mucous membranes and the upper respiratory system. May cause spasm, inflammation and edema of the larynx, chemical pneumonitis and pulmonary edema.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Nervous disorders, gastrointestinal disorders, cramps, enteritis, diarrhea, dizziness, headache.
<b>Chronic exposure effects / symptoms</b>	May cause haemolysis of red blood cells with or without methemoglobinemia-carboxyhemoglobinemia and pulmonary disorders. Burning sensation, cough, laryngitis, shortness of breath, headache, nausea and vomiting. 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. Cough, respiratory failure, migraine, nausea, vomiting. Repeated exposure may cause asthma.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 1200 mg/kg. LD50 Dermal - Rabbit - >10 000 mg/kg
<b>CL50 (specify species and route of entry)</b>	CL50 inhalation - Rat >28000 mg/m3 - 1 h.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	EC50 - Daphnia magna (Water flea) - >1000 mg/l - 48 h LC50 - Oncorhynchus mykiss (rainbow trout) - >1000 mg/L - 96 h Inhibition of growth - NOEC - Desmodesmus subspicatus (green algae) - 3137 mg/L - 72 h. LC50 - Lepomis macrochirus - >1000 mg/L - 96 h
<b>Persistence and degradability</b>	Soluble in water. Persistence is unlikely based on the information provided.
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Probable mobility in the environment due to its solubility in water.
<b>Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

## 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

UN Number	1495
UN Proper shipping name	CHLORATE DE SODIUM
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	Acute toxicity - Oral category 4 Lésions oculaires graves/irritation oculaire category 2B Oxidizing solids 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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