



## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM PERIODATE 0.04M		Product Use Laboratory use	
Chemical formula NaIO <sub>4</sub>		Product code SS-4444; SS-0404	Molar weight 213,89
Chemical name / Commercial name / Synonymous SODIUM PERIODATE, METAPERIODATE DE SODIUM			
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 Lun-Ven 8h-16h	
Emergency phone	418-660-8666 Lun-Ven 8h-16h	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 10/25/2024	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

### SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Serious eye damage/eye irritation - Eye irritation category 2
Signal Word	WARNING
Hazards statements (H)	H319 Causes serious eye irritation.
Precautionary statements (P)	<p>P264 Wash thoroughly after handling.</p> <p>P280 Wear protective gloves, protective clothing and eye and face protection.</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>P337 + P313 If eye irritation persists: Get medical advice/attention.</p>
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p>Health 1</p> <p>Fire 0</p> <p>Reactivity 0</p> <p>Special danger</p>

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P/P)
Periodate De Sodium	7790-28-5	0.8

## 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>	If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Skin irritation. Eyes irritation. Irritation of the respiratory system. Neurological disorders. Gastrointestinal disorders. Nausea and vomiting. Vertigo. Loss of appetite. Tiredness. Chest pain. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Suitable extinguishing media</b>	Use water to extinguish the fire
<b>Unsuitable extinguishing media</b>	Do not use a chemical fire extinguisher.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: - Hydrogen iodide, Sodium oxides
<b>Specific hazards of the dangerous product</b>	In the event of a fire, the water in the solution will evaporate, and the oxidizing base product will fuel the fire. When concentrated, the product reacts according to the following characteristics: Powerful oxidizer. Contact with combustible products may cause fire. Sodium periodate can form explosive mixtures in the presence of reducing agents (potassium, sodium, metal hydrides), fine metal powders and magnesium. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personnel precautions, protective equipment</b>	Evacuate personnel to safe areas. Cut off all sources of ignition. Cover the residues with calcium oxide or sodium carbonate to neutralize the product. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container provided for the disposal of hazardous materials. When handling, wear appropriate safety equipment. Use NIOSH cartridge respiratory protection for larger spills. (Reference Section 8 for protective equipment to be used.) Avoid breathing vapors, mist or gas. 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. Keep container tightly closed and store away from heat, moisture, combustible and incompatible products. Light sensitive.
<b>Methods of handling</b>	Avoid contact with the skin, eyes and clothes. Avoid formation of dust and aerosols. Avoid ingestion and inhalation. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Keep away from sources of ignition - No smoking. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. Wear personal protective equipment when handling. Always ensure good ventilation.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control parameters	Value	Basis
Sodium Periodate	7790-28-5	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 permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
<b>Gloves</b>	Gloves resistant to basic corrosive materials. Suggested material: Nitrile. Butyle. 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.
<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. Recirculation is prohibited.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid.
<b>Appearance</b>	Liquide clair.
<b>Odour</b>	Inodore.
<b>Odour threshold</b>	Data not available
<b>pH</b>	~6.
<b>Melting point / Freezing point</b>	Data not available
<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>Solubility</b>	Soluble dans l'eau froide, l'acide acétique, l'acide nitrique et l'acide sulfurique.
<b>Vapour density</b>	Data not available
<b>Relative density</b>	1.01 g/ml (Théorique)g/ml
<b>Partition coefficient water/n-octanol</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	Data not available
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Oxidizer: risk of fire in case of contact with combustible / organic substance. Material may react violently with water. May react violently with incompatible substances.
<b>Chemical stability</b>	Hygroscopic. Sensitive to light.
<b>Possibility of hazardous reactions</b>	Metaperiodates (IO <sub>4</sub> ) are susceptible to decomposition with explosive violence.
<b>Conditions to avoid, including static discharge, shock or vibration</b>	Avoid moisture and excessive heat. Exposure to light.
<b>Incompatible materials</b>	Reducing agents (potassium, sodium, metal hydrides), fine metal powders, organic and combustible materials, magnesium, heat and moisture. When pure, the product reacts with the following products:
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. Toxic vapors of hydrogen iodide. - Sodium oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM PERIODATE

<b>Routes of exposure</b>	Inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Irritation and tearing.
<b>- Skin</b>	Irritation.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Gastrointestinal disorders, cramps, diarrhea, headache, dizziness, convulsions, nausea and vomiting.
<b>Chronic exposure effects / symptoms</b>	Burning sensation, nervous disorders, chest pain, cough, dyspnea, laryngitis, headache, dizziness, fatigue, diaphoresis, weight loss and loss of appetite, nausea and vomiting.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Data not available; LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	LC50 - Inhalation - Data not available.

### SUMMARY

<b>Acute exposure effects / Symptoms:</b>	By exposure routes below.
<b>Ingestion</b>	To our knowledge, the product has not been fully evaluated
<b>Inhalation</b>	To our knowledge, the product has not been fully evaluated
<b>Skin</b>	To our knowledge, the product has not been fully evaluated
<b>Eyes</b>	To our knowledge, the product has not been fully evaluated
<b>Chronic exposure effects / Symptoms:</b>	To our knowledge, the product has not been fully evaluated
<b>ETA Mix (Estimated Acute Toxicity)</b>	LD50 Oral: No data available LD50 Dermal: No data available LC50 Inhalation: No data available

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Data not available.
<b>Persistence and degradability</b>	Data not available.
<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>	Very toxic to aquatic life. All littering must be avoided in the environment.

## 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	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Serious eye damage/eye irritation - Eye irritation category 2
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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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