



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

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

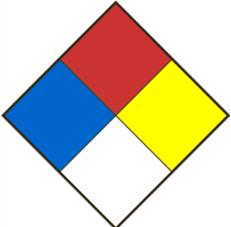
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM PEROXIDE		Product Use Laboratory use	
Chemical formula Na <sub>2</sub> O <sub>2</sub>		Product code SR-0146	Molar weight 77,98
Chemical name / Commercial name / Synonymous Sodium superoxide, Dioxyde 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 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 6/30/2021	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	Oxidizing solids category 1 Skin corrosion/irritation - Skin corrosion category 1A Serious eye damage/eye irritation - Serious eye damage category 1
<b>Signal Word</b>	DANGER
<b>Hazards statements (H)</b>	H271 May cause fire or explosion; strong oxidiser. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
<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. P260 Do not breathe dust / fume / gas / mist / vapors / spray. P264 Wash the areas of the body that have been in contact with the product after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P283 Wear fire/flame resistant/retardant clothing. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see section 4 of the SDS and on this label). P363 Wash contaminated clothing before reuse. 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.
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<b>Health</b> 3 <b>Fire</b> 0 <b>Reactivity</b> 3 <b>Special danger</b> OX

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Peroxyde de sodium	1313-60-6	>=93

## 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, 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. Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available. In case of poisoning, the following can be administered as an antidote: Diluted vinegar. Fruit juice.
<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>	Water.
<b>Unsuitable extinguishing media</b>	Do not use dry chemical, they can accelerate the peroxide decomposition process.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: - Sodium oxides.
<b>Special fire and explosion hazards</b>	Oxidizer. May cause fire on contact with organic material. Its decomposition releases oxygen and increases the flammability and combustion rates of flammable vapors. SODIUM PEROXIDE reacts violently with reducing agents, combustible materials and light metals. Reacts exothermically and rapidly or even explosively with water to form a strong base (NaOH) and oxygen (O <sub>2</sub> ) Reacts violently with water. 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 / Personal 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. Do NOT use absorbents composed with minerals, clay, or cellulose. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
-----------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Keep container tightly closed and store away from heat, moisture, combustible and incompatible products. Store in a cool, dry place. Store in a well-ventilated area.
<b>Methods of handling</b>	Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Keep away from heat and sources of ignition. Avoid contact with combustible materials. Avoid breathing dust, fumes, gases, mists, vapors, aerosols. 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 parameters	Value	Basis
Sodium peroxide	1313-60-6	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>	Fan.
<b>Respiratory</b>	If work under the hood is not possible, or 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>	Poudre jaune clair.
<b>Odour</b>	Donnée non disponible.
<b>Odour threshold</b>	Data not available
<b>pH</b>	12.8 à 100 g/l à 20 °C.
<b>Melting point / Freezing point</b>	460°C (dec)
<b>Initial boiling point</b>	657°C (dec)
<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>	2.805g/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>	657°C
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Material may react violently with water. Oxidizer: risk of fire in case of contact with combustible / organic substance. May react violently with incompatible substances.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Risk of fire or explosion if heated or crushed in presence of combustible or organic products. Reacts violently with water. May react violently with incompatible substances.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Reacts violently with water. Avoid friction. Avoid the presence of water and excessive moisture. Avoid contact with incompatible materials.
<b>Incompatible material</b>	Water. Organic materials, reducing agents, alcohols, powdered metals, calcium carbide, acids, bases, glycerin, phosphorus, water, hydrogen sulfide, magnesium, arsenic, selenium, hexamethylenetetramine, combustible materials, ammonium persulfate, hydrogen sulfide gas, acetic acid or acetic anhydride, aniline, benzene, diethyl ether, oils, manganese dioxide, monochloride sulfur.
<b>Materials to avoid</b>	Strong reducing agents, Organic materials, Alcohols, Powdered metals.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Sodium oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM PEROXIDE

<b>Routes of exposure</b>	Ingestion, inhalation, skin contact.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Causes severe burns.
<b>- Skin</b>	Causes severe burns. May be harmful in contact with skin.
<b>- Inhalation</b>	May be harmful if inhaled. Burning sensation. Cough. Labored breathing. Shortness of breath. Sore throat. The product is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Acute toxicity (Ingestion)</b>	Burns. Sore throat. Abdominal pain. Nausea. Shock or collapse. Burning sensation.
<b>Chronic exposure effects / symptoms</b>	Dermatitis of contact.
<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.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Available ecological information</b>	No
-----------------------------------------	----

## 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>	1504
<b>UN Proper shipping name</b>	PEROXYDE DE SODIUM
<b>Transport hazard class(es)</b>	5.1 Oxidizing substances
<b>Packing group</b>	I
<b>Limited quantity index</b>	0kg
<b>ERAP Index</b>	1000
<b>Special precautions</b>	38

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Oxidizing solids category 1 Skin corrosion/irritation - Skin corrosion category 1A Serious eye damage/eye irritation - Serious eye damage category 1
--------------	------------------------------------------------------------------------------------------------------------------------------------------------------------

## 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: 6/30/2021