



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 HYDROSULFITE		Product Use Laboratory use	
Chemical formula $\text{Na}_2\text{S}_2\text{O}_4$		Product code ST-0110	Molar weight 174,11
Chemical name / Commercial name / Synonymous SODIUM HYDROSULFITE, SODIUM HYDROSULPHITE, DITHIONITE DE SODIUM, SULFOXYLATE DE SODIUM, HYDROLIN, VATROLITE, ACIDE DITHIONEUX, SEL DISODIQUE			
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

Classification WHIMS / GHS	Self-heating substances category 1 Acute toxicity - Oral category 4
Signal Word	DANGER
Hazards statements (H)	H251 Self-heating: may catch fire. H302 Harmful if swallowed.
Precautionary statements (P)	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. P330 Rinse mouth. P407 Maintain air gap between stacks/pallets. P413 Store bulk masses greater than 200 L at temperatures not exceeding 40 °C. P420 Store away from other materials. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. P235 Keep cool. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 3 Fire 2 Reactivity 2 Special danger

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Hydrosulfite de sodium	7775-14-6	~85

## 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>	Yes
<b>Ignition conditions</b>	Heat, sparks and open flame.
<b>Suitable extinguishing media</b>	Dry powder.
<b>Unsuitable extinguishing media</b>	Adding small amounts of water can cause self-ignition.
<b>Hazardous combustion / decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides.
<b>Special fire and explosion hazards</b>	May react violently with incompatible products (Ref Section 10). May ignite if exposed to heat, flame, moisture and sodium chlorite. Sodium hydrosulfite can decompose violently if heated above 190 ° C. Containers exposed to fire may explode. Reacts violently on contact with strong oxidizing agents.
<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. Do NOT rinse with water. 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

<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of heat and ignition. Air-, heat-, and moisture-sensitive. Never allow product to get in contact with water during storage. Handle and store under inert gas.
<b>Methods of handling</b>	Avoid contact with the skin, eyes and clothes. To dissolve, always gently add the product to the water and not the reverse. 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. 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 HYDROSULPHITE	7775-14-6	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

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	Poudre blanche/jaune pâle.
Odour	Odeur d'oeuf pourri.
Odour threshold	Data not available
pH	7.0 - 9 (50 g/l à 20 °C).
Melting point / Freezing point	300°C (dec)
Initial boiling point	Data not available
Boiling range	Data not available
Flash point	100°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	1.4 (air=1.0).
Relative density	2.500g/cm <sup>3</sup>
Solubility	Très soluble dans l'eau. Peu soluble dans l'alcool. Insoluble dans l'acide..
Partition coefficient water/n-octanol	log Pow: < -4.7-
Auto-ignition temperature	La substance ou le mélange est classé comme auto-échauffant dans la catégorie 1..
Decomposition temperature	>100°C
Viscosity	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive under normal conditions.
<b>Chemical stability</b>	May decompose on exposure to air and moisture. Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	This product can decompose if exposed to air and moisture. Unstable if heated above 50 ° C. Reacts violently with water. Avoid dust formation. Avoid moisture and excessive heat.
<b>Incompatible material</b>	Strong oxidizing agents. Acids. Water. Sodium hypochlorite.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM HYDROSULFITE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Severe irritation and may result in inflammation of the conjunctiva.
<b>- Skin</b>	Irritation and dermatitis.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, respiratory allergy, cough, dyspnea, headache, dizziness, watery eyes, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Dysphagia, abdominal pain, cramps, diarrhea, headache, dizziness, sweating, salivation, convulsions, nausea and vomiting.
<b>Chronic exposure effects / symptoms</b>	Burning sensation, dermatitis, conjunctivitis, nervous disorders, chest pain, respiratory allergy, cough, dyspnea, laryngitis, headache, dizziness, confusion, irritability, sweating, salivation, fatigue, weight loss and loss of appetite, nausea and vomiting.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 2500 mg/kg, LD50 Dermal - Rat - >2000 mg/kg
<b>CL50 (specify species and route of entry)</b>	CL50 inhalation - Rat >5.5 mg/L - 4 h.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	LC50 - <i>Leuciscus idus</i> (Golden orfe) - 10-100 mg/L - 96 h. EC50 - <i>Daphnia magna</i> (Water flea) - 10-100 mg/L - 48 h. EC50 - <i>Desmodesmus subspicatus</i> (green algae) - 87 mg/L - 96h.
<b>Persistence and degradability</b>	Persistence is unlikely based on information 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>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Do not throw residues in the sewer. The product contains the following substances which are dangerous for the environment.

## 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	1384
UN Proper shipping name	DITHIONITE DE SODIUM ou HYDROSULFITE DE SODIUM
Transport hazard class(es)	4.2 Substances liable to spontaneous combustion
Packing group	II
Limited quantity index	0kg
ERAP Index	3000
Special precautions	-

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Self-heating substances category 1 Acute toxicity - Oral category 4
--------------	--

## 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