



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

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


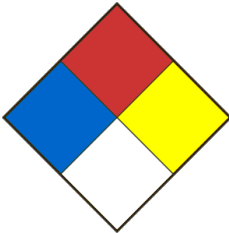
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM SULFIDE (NONAHYDRATE)		Product Use Laboratory use	
Chemical formula Na ₂ S•9H ₂ O		Product code SR-0162	Molar weight 240,18
Chemical name / Commercial name / Synonymous SULFURE DE SODIUM NONAHYDRATE, SODIUM SULFIDE NONOHYDRATE, DISODIUM SULFANIDE NONAHYDRATE, SODIUM POLYSULPHIDES			
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 10/29/2021	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Acute toxicity - Oral category 4</p> <p>Skin corrosion/irritation - Skin corrosion category 1B</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Acute toxicity - Dermal category 3</p>	
Signal Word	DANGER	
Hazards statements (H)	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H311 Toxic in contact with skin.</p>	
Precautionary statements (P)	<p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <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>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</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>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p>	
PICTOGRAMS		
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)	
	<p>Health 3</p> <p>Fire 1</p> <p>Reactivity 1</p> <p>Special danger</p>	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Sulfure de sodium nonahydrate	1313-84-4	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	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.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	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.
Most important symptoms and effects (acute and delayed)	The product is a material corrosive. Main symptoms of high exposure: Cough. Headaches. Breathing difficulties. Nausea. Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	Yes
Ignition conditions	Heat, sparks and open flame. May ignite on shock, friction or if moderately heated.
Suitable extinguishing media	Dry powder or dry sand. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Avoid water if possible because can form oxides of sulfur. Adding small amounts of water can cause self-ignition. When flooded with water, will continue to give off flammable carbon disulphide / carbon disulphide vapors.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: - Sulphur oxides, Sodium oxides. Hydrogène sulfide.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). The product causes burns to the eyes, skin and mucous membranes. If dehydrated by heating, the product becomes anhydrous and presents a risk of fire or explosion. Fine dust in the air can ignite. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment and precautions for firefighters	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

Methods and materials for containment and cleaning up / Personnel precautions, protective equipment	Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Use a respirator as needed. Pick up with a shovel or broom, taking care not to scatter dust. Do NOT rinse with water. Avoid contact 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.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Deliquescent. Air and light sensitive. Recommended storage temperature 2 - 8 °C. Do not store near acids. Keep away from acids.
Methods of handling	Avoid contact with the skin, eyes and clothes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Use a hood preferably. Keep away from sources of ignition - No smoking. Avoid shock and friction. 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.	Value	Control Citric acid	
SODIUM SULFIDE NONAHYDRATE	1313-84-4	No data available	TLV, TWA, STEL	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		No data available	TLV, TWA, STEL	Canada. British Columbia OEL
		No data available	TLV, TWA, STEL	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	Cristallin blanc à jaune pâle.
Odour	odeur d'oeuf pourri.
Odour threshold	Data not available
pH	>12.
Melting point / Freezing point	50°C (dec)
Initial boiling point	Data not available
Boiling range	Data not available
Flash point	Data not available
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	Data not available
Relative density	1.427g/cm ³
Solubility	Soluble dans l'eau et l'alcool.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. Reducing product, may react violently with oxidizing agents.
Chemical stability	If heated strongly, it emits toxic fumes. Hygroscopic.
Possibility of hazardous reactions	Sensitive to shocks and friction. May ignite on shock, friction or if moderately heated. May explode on rapid heating or on shock. May spontaneously heat up if exposed to moist air and may ignite nearby combustible materials. Contact with acids liberates highly toxic and flammable hydrogen sulfide gas. On contact with certain metals, the product may generate hydrogen gas.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid exposure to air, light and moisture. Hygroscopic. Deliquescent in humid air. Sensitive to friction. Chocs sensitive. Light sensitive.
Incompatible material	Metals. Zinc. Copper. Violent reaction with: Oxydants. Acids. Water. Charcoal. Diazonium salts. N,N-dichloromethylamine.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides. Sulfuric acid. Hydrogen sulfide.

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM SULFIDE (NONAHYDRATE)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Severe irritation and burning may cause permanent eye damage.
- Skin	May be harmful in contact with skin. Irritation and tissue burns. May cause dermatitis. Contact effects may be delayed.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Edema of the larynx and bronchi. Pneumonia. Inhalation effects may be delayed.
Acute toxicity (Ingestion)	Irritation and burning of the mouth, throat, esophagus and abdominal wall. Nervous disorders, abdominal pain, gastrointestinal disorders, cramps, diarrhea, nausea, vomiting, convulsions, anemia, uremia, respiratory collapse, coma and death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, eye damage (conjunctivitis), dizziness, drowsiness, headache, coughing, dysphnea, laryngitis, fatigue, loss of appetite, convulsions, nausea and vomiting. May cause skin allergy in some subjects. The use of a gastric wash or emesis is contraindicated. Possible perforation of the stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to delicate tissues and the danger of perforation.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 1122 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	CL50 - Fish - Flow-through test - 0.0027 mg/L - 96h. NOEC Lepomis macrochirus (Bluegill sunfish): Flow-through test - 0.0092 mg/L - 28 days.
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	Very toxic to aquatic life.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

UN Number	1849
UN Proper shipping name	SULFURE DE SODIUM HYDRATÉ avec au moins 30% d'eau
Transport hazard class(es)	8 Corrosive substances
Packing group	II
Limited quantity index	1kg
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Acute toxicity - Oral category 4 Skin corrosion/irritation - Skin corrosion category 1B Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Dermal category 3
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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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