



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

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


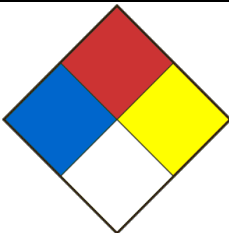
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM SULFIDE (FLAKES)		Product Use Laboratory use	
Chemical formula Na <sub>2</sub> S		Product code SP-0906	Molar weight 78,04
Chemical name / Commercial name / Synonymous SODIUM SULFIDE, SODIUM MONOSULFIDE, DISODIUM MONOSULFIDE, SODIUM SULFURET			
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 2/15/2023	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	<p>Corrosive to metals-Category 1</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 - Oral category 3</p> <p>Acute toxicity - Dermal category 3</p>
<b>Signal Word</b>	DANGER
<b>Hazards statements (H)</b>	<p>H290 May be corrosive to metals.</p> <p>H301 Toxic if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p>
<b>Precautionary statements (P)</b>	<p>P234 Keep only in original container.</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 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</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>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P405 Store locked up.</p> <p>P406 Store in a corrosion resistant container / or a container with corrosion resistant liner.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p>
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)
	<p><b>Health</b> 3</p> <p><b>Fire</b> 1</p> <p><b>Reactivity</b> 1</p> <p><b>Special danger</b></p>

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Sulfure de sodium (flocons) anhydre	1313-82-2	<=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>	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>	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.
<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. May ignite on shock, friction or if moderately heated. Sensitive to air.
<b>Suitable extinguishing media</b>	Dry powder or dry sand.
<b>Unsuitable extinguishing media</b>	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.
<b>Hazardous combustion products</b>	Hazardous combustion 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). The product causes burns to the eyes, skin and mucous membranes. Fine dust in the air can ignite. Do not allow run-off from fire fighting to enter drains or water courses.
<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 dust formation. 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.
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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. 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.
<b>Methods of handling</b>	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.	Control	Value	Basis
SODIUM SULFIDE (FLAKES) ANHYDROUS	1313-82-2	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 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.
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	Flocons, de couleur jaune/crème pâle à blanc.
Odour	Oeuf pourri.
Odour threshold	Data not available
pH	Solution aqueuse est fortement alcaline.
Melting point / Freezing point	950-1180°C
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	1.856g/ml
Solubility	Soluble dans l'eau. Légèrement soluble dans l'alcool. Insoluble dans l'éther..
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

<b>Reactivity</b>	May react violently with incompatible substances. Reducing product, may react violently with oxidizing agents.
<b>Chemical stability</b>	If heated strongly, it emits toxic fumes. Hygroscopic.
<b>Possibility of hazardous reactions</b>	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.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Avoid exposure to air, light and moisture. Hygroscopic. Deliquescent in humid air. Sensitive to friction. Chocs sensitive. Light sensitive.
<b>Incompatible material</b>	Metals. Zinc. Copper. Violent reaction with: Oxydants. Acids. Water. Charcoal. Diazonium salts. N,N-dichloromethylamine.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM SULFIDE (FLAKES)

<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>	Severe irritation and tissue burn.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Cough, Respiratory failure, Migraine, Nausea.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Nausea. Headache. Dépression des centres respiratoires, perte de conscience, coma et mort possible. The product is a corrosive material. Born not perform gastric lavage, do not induce vomiting. Check for lack of perforation Stomach or oesophageal: Ingestion causes severe swelling, serious injury to delicate fabrics and a danger of perforation.
<b>Chronic exposure effects / symptoms</b>	The product is extremely destructive of the tissues of the mucous membranes, upper respiratory tract, eyes and skin. Very toxic : probable oral lethal dose (human) 50-500 mg/kg.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 246 mg/kg. LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	LC50 - Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	LC50 - Lepomis macrochirus - 0.032 mg/L - 96 h. LC50 - Daphnia magna (Water flea) - 2.1 mg/L - 48 h. CL50 - Poecilia reticulata (Gruppie) : 7.7 - 29.1 - 96 h. CE50 - chlorella pyrenoidosa - growth inhibition - 75 mg/L - 96 h
<b>Persistence and degradability</b>	Soluble in water. Persistence is unlikely based on the information provided.
<b>Bioaccumulative potential</b>	Does not significantly accumulate in organisms.
<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.

## 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	1385
UN Proper shipping name	SULFURE DE SODIUM ANHYDRE
Transport hazard class(es)	4.2 Substances liable to spontaneous combustion
Packing group	II
Limited quantity index	0kg
ERAP Index	1000
Special precautions	-

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Corrosive to metals-Category 1 Skin corrosion/irritation - Skin corrosion category 1B Serious eye damage/eye irritation - Serious eye damage category 1 Acute toxicity - Oral category 3 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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