


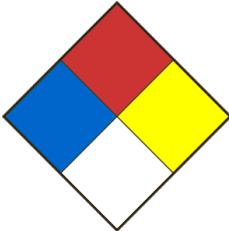


SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM BIFLUORIDE		Product Use Laboratory use	
Chemical formula NaHF ₂		Product code SR-0124	Molar weight 62
Chemical name / Commercial name / Synonymous Bifluorure de sodium, Sodium hydrogen difluoride, Difluorure de sodium, SODIUM ACID FLUORIDE, Sodium bifluoride, Sodium difluoride, SODIUM HYDROGEN DIFLUORIDE, SODIUM HYDROGEN FLUORIDE			
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 10/24/2024	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Skin corrosion/irritation - Skin corrosion category 1B</p> <p>Acute toxicity - Oral category 3</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p>
Signal Word	DANGER
Hazards statements (H)	<p>H301 Toxic if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p>
Precautionary statements (P)	<p>P260 Do not breathe mists, gases, vapors and other fumes, or the product itself.</p> <p>P264 Wash thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves, protective clothing and eye and 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>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</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 a doctor.</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 and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.</p>
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p>Health 3</p> <p>Fire 0</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 (%P/P)
Bifluorure de Sodium	1333-83-1	<=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	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, drink water and do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Nausea and vomiting. Abdominal pain. Salivation. Tremors. Salty or soapy taste. Muscle pain. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Suitable extinguishing media	Use water spray, alcohol-resistant foam, or dry chemical.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Hydrogen fluoride, Sodium oxides.
Specific hazards of the dangerous product	May react violently with incompatible products (Ref Section 10).
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 / Personal precautions, protective equipment	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. When handling, wear appropriate safety equipment. Use NIOSH cartridge respiratory protection for larger spills. (Reference Section 8 for protective equipment to be used.) Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products. Keep container tightly closed in a dry and well-ventilated place.
Methods of handling	Bottle in plastic containers as this product corrodes the glass. Aqueous solutions can also corrode glass and porcelain and must be stored in plastic containers. Do not use metal instruments to handle this product. NOTE: May attack natural rubber. Avoid ingestion and inhalation. 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. 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

Component	No.-CAS	Control parameters	Value	Basis
Sodium bifluoride	1333-83-1	TWA	2.5mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWAEV	2.5 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	2.5 mg/m ³	Canada. British Columbia OEL

Data source	Sigma-Aldrich (Millipore Sigma)
Ventilation	Fan.
Respiratory	If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
Gloves	Handle with gloves. Suggested material: Nitrile. Butyle. Viton® (Fluoroelastomer). 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.
Eyes	Safety goggles with safety shutters.
Shoes	Use 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 cristalline ou granuleuse de couleur blanche.-
Odour	Donnée non disponible..
Odour threshold	Data not available
pH	Donnée non disponible..
Melting point / Freezing point	160°C
Initial boiling point	270 °C @ 101 325 Pa-
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	0.01 Pa @ 20 °C-
Vapour density	Data not available
Relative density	2.08g/cm ³
Solubility	Soluble dans l'eau. 32.5 g/L @ 20 °C.
Partition coefficient water/n-octanol	Log Pow : 1.26 @ 20 °C-
Auto-ignition temperature	Data not available
Decomposition temperature	> 160°C
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions to avoid, including static discharge, shock or vibration	Avoid exposure to air. Avoid moisture.
Incompatible materials	Sodium bifluoride is incompatible with sulfuric acid, caustics, ammonia, amines, organic anhydrides, isocyanates, vinyl acetate, alkylene oxides and epichlorohydrin. It corrodes glass, concrete and metals containing silica. Dissolution of sodium bifluoride in water gives off heat. Strong bases.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Hydrogen fluoride, Sodium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM BIFLUORIDE

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes eye burns.
- Skin	May be harmful if absorbed through skin. Causes skin burns.
- Inhalation	May be harmful if inhaled. The product is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Acute toxicity (Ingestion)	Toxic if swallowed. Salty or soapy taste, salivation, nausea, burning or cramping abdominal pain, vomiting, diarrhea, muscle weakness, tremors. Rare: transient epileptiform convulsions, followed by central nervous system (CNS) depression.
Chronic exposure effects / symptoms	The product is extremely destructive of the tissues of the mucous membranes, upper respiratory tract, eyes and skin, spasm, inflammation and edema of the larynx, spasm, inflammation and bronchial edema, congestion Pulmonary edema, burning sensation, cough, asthma, laryngitis, respiratory failure, migraine, Nausea. Severe irritation (possible burn): eyes, skin, respiratory tract (if inhaled); salivation, nausea, abdominal pain, vomiting, diarrhea; muscle pain, paresthesia, hyper-reflexivity, convulsions; shock, death from heart failure or respiratory paralysis. Alteration of dental enamel. Osteosclerosis (excessive hardening of the bones).
DL50 (specify species and route of entry)	LD50 Oral - Data not available; LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Available ecological information	No
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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	2439
UN Proper shipping name	BIFLUORURE DE SODIUM
Transport hazard class(es)	8 Corrosive substances
Packing group	II
Limited quantity index	1kg
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

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