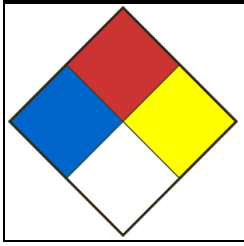
Centre Anti-Poison pour le Québec: (800) 463-5060
Tél. (Qc): (418) 660-8666 / 800-890-8666
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM AZIDE		**Product Use** Laboratory use	
Chemical formula NaN_3		**Product code** SR-0120	**Molar weight** 65,01
Chemical name / Commercial name / Synonymous SODIUM AZIDE, HYDRAZOIC ACID SODIUM SALT, AZIDE, SMITE			
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 12/10/2018	**SDS Prepared by** Laboratoire MAT	**E-Mail** labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Acute toxicity - Oral category 2 Acute toxicity - Dermal category 1 Specific Target Organ Toxicity - Repeated exposure category 2 Acute toxicity - Inhalation category 2
Signal Word	DANGER
Hazards statements (H)	H300 Fatal if swallowed. H310 Fatal in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure. H330 Fatal if inhaled.
Precautionary statements (P)	P262 Do not get in eyes, on skin, or on clothing. P264 Wash the areas of the body that have been in contact with the product after handling. P270 Do no eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see section 4 of the SDS and on this label). P361 + P364 Take off immediately all contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. P330 Rinse mouth. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P314 Get medical advice/attention if you feel unwell. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P320 Specific treatment is urgent (see section 4 on this SDS on this label). P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	**Health** 4 **Fire** 0 **Reactivity** 1 **Special danger**

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Azoture de sodium	26628-22-8	<=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 breathing is difficult, give oxygen. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	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	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Dry powder.
Unsuitable extinguishing media	Do not use water.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx). Gaseous nitrogen.
Special fire and explosion hazards	This product may react violently with shock, friction or when heated rapidly. Containers exposed to fire may explode. Sodium azide is hydrolysed by water to be rapidly converted to hydrazoic acid; a potentially explosive and unstable compound. Its use in organic syntheses can also generate explosive vapors of hydrazoic acid. This product may react with several heavy metals and their salts, including: silver, copper, iron, mercury, gold and lead, and thus form explosive compounds sensitive to friction and shock. Violent reactions with the following products: benzoyl chloride + potassium hydroxide, strong acids, barium carbonate, bromine, carbon disulfide, chromyl chloride, dibromomalonitrile, dimethyl sulphate hot water, metal halides and hydrazine.
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 / Personnal precautions, protective equipment	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. Wear respiratory protection. Avoid breathing dust. Avoid dust formation. Do not let product enter drains. Dispose of residues in a container provided for the disposal of hazardous materials.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products. Protect from the sun's rays. Keep containers in a separate area under fire control. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.
Methods of handling	Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Sodium azide	26628-22-8	(c)	0.290000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks				
		(c)	0.110000 ppm 0.300000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		C	0.110000 ppm	Canada. British Columbia OEL
	C 0.290000 mg/m3 Canada. British Columbia OEL			
		C	0.110000 ppm 0.300000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	A substance which may not be recirculated in accordance with section 108			
		C	0.11 ppm 0.3 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	A substance which may not be recirculated in accordance with section 108			
		(c)	0.29 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		(c)	0.11 ppm 0.3 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		C	0.29 mg/m3	Canada. British Columbia OEL
		C	0.11 ppm	Canada. British Columbia OEL
		C	0.110000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		C	0.290000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		C	0.110000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		C	0.290000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		C	0.29 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		C	0.11 ppm	USA. ACGIH Threshold Limit Values (TLV)

Data source	Sigma-Aldrich.
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.
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	Cristaux blancs-
Odour	Donnée non disponible.
Odour threshold	Data not available
pH	10 @ 65g/L @25°C.
Melting point / Freezing point	275°C
Initial boiling point	Data not available
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 hPa (0.01 mmHg) at 20 °C-
Vapour density	Data not available
Relative density	1.85g/cm³
Solubility	Très soluble dans l'eau (408 g/lL 20 °C). Peu soluble dans l'alcool.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	309°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid heat, open flame, moisture, friction and shocks. Avoid the accumulation of static electricity.
Incompatible material	Acids and acid chlorides, barium carbonate, bromine, carbon disulfide, chromyl chloride, dibromomalonitrile, dimethyl sulphate, metal halides, hydrazine, heavy metals and their salts , water and heat.
Materials to avoid	Halogenated hydrocarbon, Metals, Acids, Acid chlorides, Hydrazine, Dimethyl sulfate, Inorganic acid chlorides.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of gaseous nitrogen and oxides of nitrogen. - Sodium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM AZIDE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, hypotension, tachycardia, respiratory depression and may lead to death by pulmonary or cerebral edema.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Abdominal pain, kidney damage (incontinence), cramps, diarrhea, headache, dizziness, sweating, salivation, nausea and vomiting, weakness, acidosis, tachycardia, hypotension, collapse, unconsciousness, coma and can lead to death.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, nervous disorders, chest pain, cough, dyspnea, headache, dizziness, confusion, drowsiness, irritability, tearing, tiredness, tachycardia, hypotension, weight loss and loss of appetite, convulsions , nausea and vomiting. Prolonged exposure to this product may cause reproductive abnormalities in humans.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 27 mg/kg LD50 Dermal - Rabbit - 20 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 54 - 520 mg/m^3

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 5.46 mg/l - 96 h Toxicity to algae: Static test: EC50 - Pseudokirchneriella subcapitata (green algae) - 0.35 mg/l - 96 h
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Very toxic to aquatic life. Causes long-term adverse effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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	1687
UN Proper shipping name	AZOTURE DE SODIUM
Transport hazard class(es)	6.1 Toxic substances
Packing group	II
Limited quantity index	0,5kg
ERAP Index	1000
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Acute toxicity - Oral category 2 Acute toxicity - Dermal category 1 Specific Target Organ Toxicity - Repeated exposure category 2 Acute toxicity - Inhalation category 2

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: 12/10/2018