

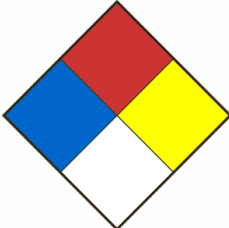


## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier <b>GERMISOL</b>		Product Use Laboratory use	
Chemical formula -		Product code VX-G6000-12026	Molar weight
Chemical name / Commercial name / Synonymous -			
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 2/13/2024	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

### SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Not a hazardous substance according to WHMIS 2015
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P P)
Nitrite de sodium	7632-00-0	0,5
STEPAN BTC 8358 (Mélange ci-dessous)	-	0.26
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	0.05
Ethanol	64-17-5	0.0006
KEYACID BLUE FG	3844-45-9	

## 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. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Get immediate medical help.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Headaches. Incoordination. Nausea and vomiting. Methemoglobinemia (methemoglobin level too high in the blood). Cyanosis (blue to black coloring of the skin and nails). Vertigo. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. 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>	No
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use a heavy water stream.
<b>Hazardous combustion products</b>	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO <sub>x</sub> ), Sodium oxides
<b>Specific hazards of the dangerous product</b>	When concentrated, the product reacts according to the following characteristics: Sodium nitrite may explode if heated above 490 ° C or in contact with cyanides, cellulose, lithium, sodium sulphite, potassium and ammonia. May react violently with incompatible products (Ref Section 10).
<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. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Avoid breathing vapors, mist or gas. Do not let product enter drains.
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## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, moisture, combustible and incompatible products.
<b>Methods of handling</b>	Avoid ingestion and inhalation. Avoid contact with the skin, eyes and clothes. Ensure good ventilation. 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 parameters	Basis
Ethanol	64-17-5	TWAEV	1000 ppm 1900 mg/m <sup>3</sup>	Canada. Ontario OELs
		TWA	1000 ppm 1880mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		VEMP	1000 ppm 1880mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEL	1000 ppm	Canada. British Columbia OEL
		TWA	1000 ppm	Canada. British Columbia OEL

<b>Ventilation</b>	Fan.
<b>Respiratory</b>	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.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	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

<b>Physical state</b>	Liquid.
<b>Appearance</b>	Liquide bleu.
<b>Odour</b>	Donnée non disponible.
<b>pH</b>	6
<b>Melting point / Freezing point</b>	Data not available
<b>Initial boiling point</b>	Data not available
<b>Boiling range</b>	Data not available
<b>Flash point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability</b>	No
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Solubility</b>	Soluble dans l'eau.
<b>Vapour density</b>	Data not available
<b>Relative density</b>	1.004g/ml
<b>Partition coefficient water/n-octanol</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	Data not available
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Non-reactive under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	May react violently with incompatible substances.
<b>Conditions to avoid, including static discharge, shock or vibration</b>	Avoid excessive heat and humidity. Avoid contact with incompatible materials and extreme temperatures. Heat, flames and sparks.
<b>Incompatible materials</b>	When pure, the product reacts with the following products: Strong reducing agents, fine metal powders, strong acids, chlorates, cyanides, hypophosphites, iodides, mercury salts, permanganates, sulphites, tannic acid, acetanilide, heat and moisture. Ammoniac. Anionic surfactants. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO <sub>x</sub> ), Sodium oxides

## SECTION 11 - TOXICOLOGICAL INFORMATION

### SODIUM NITRITE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Irritation and tearing.
<b>- Skin</b>	Irritation and dermatitis.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, cough, dyspnea, headache, convulsions, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Nervous disorders, dizziness, cramps, nausea and vomiting, arterial and venous dilation, tachycardia, hypotension, methemoglobinemia, cyanosis, coma and death. Ingesting one gram can be fatal in humans.
<b>Chronic exposure effects / symptoms</b>	Burning sensation, dermatitis, nervous disorders, dizziness, cough, dyspnea, laryngitis, headache, loss of appetite, convulsions, nausea and vomiting.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 85 mg/kg. LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	LC50 Inhalation - Rat - 4h - 5.5 mg/L.

### STEPAN BTC 8358

<b>Routes of exposure</b>	Ingestion, skin and eye contact. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Causes eye burns.
<b>- Skin</b>	Severe irritation and tissue burns.
<b>- Inhalation</b>	Inhalation of the product should not be expected given its viscosity.
<b>Acute toxicity (Ingestion)</b>	Burns and corrosion of the digestive tract.
<b>Chronic exposure effects / symptoms</b>	Burning sensation and irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 344 mg/kg. LD50 Dermal - Rabbit - > 2000 mg/kg
<b>CL50 (specify species and route of entry)</b>	LC50 - Inhalation - Data not available.

## SUMMARY

Acute exposure effects / Symptoms:	By exposure routes below.
Ingestion	To our knowledge, the product has not been fully evaluated
Inhalation	To our knowledge, the product has not been fully evaluated
Skin	To our knowledge, the product has not been fully evaluated
Eyes	To our knowledge, the product has not been fully evaluated
Chronic exposure effects / Symptoms:	To our knowledge, the product has not been fully evaluated
ETA Mix (Estimated Acute Toxicity)	LD50 Oral: > 5000 mg/kg - Rat LD50 Dermal: > 5000 mg/kg - Rabbit LC50 Inhalation: No data available

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Sodium nitrite: Toxicity to fish: Flow-through test - LC50 - Oncorhynchus mykiss (rainbow trout) - 0.94 - 1.92 mg/l - 96.0 h. Mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 0.54 mg/l - 96.0 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 12.5 mg/l - 48 h. Toxicity to algae: NOEC - Desmodesmus subspicatus (green algae) - 100 mg/l - 72 h. Method: OECD Test Guideline 201 BTC 8358: LC50: Daphnia magna (Water flea) - 0.0058 - 0.016 mg/l - 48h.
Persistence and degradability	Persistence is unlikely based on information available.
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. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 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	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Not a hazardous substance according to WHMIS 2015
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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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