



# SAFETY DATA SHEET

## SECTION 01 - IDENTIFICATION

<b>Product Identifier</b>	THYMOL BLUE
<b>Other identification (Chemical name, Commercial name, Synonymous)</b>	THYMOL BLEU; THYMOL BLUE FREE ACID; THYMOLSULFONEPHTALEINE; PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)BIS(5-METHYL-2-(1-METHYLETHYL))-, S,S-DIOXIDE.
<b>Product code</b>	BR-0164
<b>Chemical formula</b>	C <sub>27</sub> H <sub>30</sub> O <sub>5</sub> S
<b>Molar weight</b>	466.6
<b>Recommended use and Restrictions on use</b>	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
<b>Supplier</b>	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
<b>Emergency phone</b>	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
<b>Date SDS</b>	2025-11-24

## SECTION 02 - HAZARDS IDENTIFICATION

**WHIMS CANADA** - Acute toxicity - Oral - category 4

**PICTOGRAMS**



**Signal Word** ATTENTION

**Hazards statements (H)** - Harmful if swallowed

**Precautionary statements (P)**

- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.

**Other dangers** NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)

**Health** 1  
**Fire** 1  
**Reactivity** 0  
**Special danger**

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
Thymol Blue	76-61-9	<=100%

## SECTION 04 - FIRST AID MEASURE

<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 contaminated clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Eyes irritation. Irritation of the respiratory system. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	No limitations on extinguishing agents.
<b>Combustion products</b>	Hazardous combustion products formed under fire conditions: Sulfur oxide. Carbon dioxide. Carbon oxides.
<b>Specific hazards of the dangerous product</b>	May form combustible dust concentrations in the air. 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>Personal precautions, protective equipment and emergency measures</b>	Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust.
<b>Methods and materials for containment and cleaning up</b>	Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided.

## SECTION 07 - HANDLING AND STORAGE

- Conditions for safe storage** Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
- Methods of handling** Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. Avoid the formation of dust.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
Thymol blue	76-61-9	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

- Respiratory** If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
- Gloves** Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. 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.
- Clothes** 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** Use fan. 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>	Solid.
<b>Color</b>	Brown to green.
<b>Odour</b>	Phenol smell.
<b>Odour threshold</b>	Data not available.
<b>Melting point and freezing point</b>	221 - 224 °C.
<b>Boiling point</b>	Data not available.
<b>Flammability</b>	Yes.
<b>Lower flammable / Explosive limit</b>	Data not available.
<b>Upper flammable / Explosive limit</b>	Data not available.
<b>Flash point</b>	Data not available.
<b>Auto-ignition temperature</b>	Data not available.
<b>Decomposition temperature</b>	Data not available.
<b>pH</b>	Data not available.
<b>Kinematic viscosity</b>	Data not available.
<b>Solubility</b>	0.11 g/l (25 °C) in water.
<b>Partition coefficient water/n-octanol</b>	log Pow: 7.21.
<b>Vapour pressure</b>	Data not available.
<b>Relative density</b>	0.979 g/cm <sup>3</sup> .
<b>Vapour density</b>	Data not available.
<b>Particle characteristics</b>	Fine powder.

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	May react violently with incompatible substances. Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	May react violently with incompatible substances. May form combustible dust concentrations in the air.
<b>Conditions to avoid</b>	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation.
<b>Incompatible materials</b>	Strong oxidizers.
<b>Hazardous decomposition products</b>	Sulfur oxides. Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).

## SECTION 11 - TOXICOLOGICAL INFORMATION

### THYMOL BLUE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eye contact.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
- Eyes	Irritation.
- Skin	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
- Inhalation	May irritate the respiratory system.
<b>Acute toxicity (Ingestion)</b>	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
<b>Chronic exposure effects / symptoms</b>	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 - Data not available. LD50 Dermal - Data not available.
<b>CL50 (specify species and route of entry)</b>	LC50 Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

### THYMOL BLUE

<b>Ecotoxicity</b>	Data not available.
<b>Persistence and degradability</b>	Data not available.
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Data not available.
<b>Other adverse effects</b>	Data not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

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

## SECTION 14 - TRANSPORT INFORMATION

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

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Acute toxicity - Oral - category 4

## SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

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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