

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Thymox Disinfectant Spray</b>
<b>Other means of identification</b>	Not available.
<b>Recommended use</b>	Hard Surface Disinfectant, Fungicide, Bactericide and Virucide
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	
<b>Company name</b>	Laboratoire M2
<b>Address</b>	4005-A rue de la Garlock Sherbrooke, QC J1L 1W9 Canada
<b>Telephone</b>	819-563-0698
<b>E-mail</b>	info@thymox.com
<b>Emergency phone number</b>	1-866-898-0697

## 2. Hazards Identification

<b>Physical hazards</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Health hazards</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Environmental hazards</b>	Exempt - Registered Product - (EPA 87742-1).
<b>OSHA defined hazards</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Label elements</b>	
<b>Hazard symbol</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Signal word</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Hazard statement</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Precautionary statement</b>	
<b>Prevention</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Response</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Storage</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Disposal</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Hazard(s) not otherwise classified (HNOC)</b>	Exempt - Registered Product - (EPA 87742-1).
<b>Supplemental information</b>	Non-hazardous by WHMIS 2015 /OSHA Hazcom 2012 GHS criteria  US: Exempt - Registered product - (EPA 87742-1).  This is an EPA registered product. This material can only be used commercially in the EPA registered application(s) noted on the product label.  Classified as a Category IV by the U.S. Environmental Protection Agency (EPA) per toxicity profile Review for all routes of exposure: no signal words, no precautionary statements or first aid statements required on product label.

## 3. Composition/Information on Ingredients

### Mixtures

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
Thymol		89-83-8	0.23

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** Not applicable to EPA registered products. Refer to product label for active ingredient content.

## 4. First Aid Measures

<b>Inhalation</b>	No particular requirements. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	No particular requirements. In case of contact with skin, flush thoroughly with water; seek medical attention if necessary.

<b>Eye contact</b>	No particular requirements. In case of contact with eyes, flush thoroughly with water; seek medical attention if necessary.
<b>Ingestion</b>	No particular requirements. If ingested, call a poison control center.
<b>Most important symptoms/effects, acute and delayed</b>	Headache. May cause eye irritation.
<b>General information</b>	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Does not sustain combustion.

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## 6. Accidental Release Measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away.
<b>Methods and materials for containment and cleaning up</b>	Use water spray to reduce vapors or divert vapor cloud drift. Following product recovery, flush area with water.  Never return spills to original containers for re-use.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and Storage

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<b>Precautions for safe handling</b>	Wash thoroughly after handling. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store at room temperature (20-25°C)(68°F-77°F) in a secure area inaccessible to children. Do not contaminate water, food or feed by storage or disposal.

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## 8. Exposure Controls/Personal Protection

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<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Not normally required. Follow label instructions.
<b>Skin protection</b>	
<b>Hand protection</b>	Not normally required. Follow label instructions.
<b>Other</b>	Follow label instructions.
<b>Respiratory protection</b>	Not normally required. Follow label instructions. Use general ventilation.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. When using do not eat or drink.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Transparent to Translucent
<b>Odor</b>	Thyme / Spicy

<b>Odor threshold</b>	Not available.
<b>pH</b>	4.0 - 6.0
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	> 212.0 °F (> 100.0 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	< 100 cps @ 25°C
<b>Other information</b>	Does not sustain combustion.
<b>VOC</b>	Calculated: approximately <1%

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Do not freeze. Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Not corrosive to SAE 1020 Steel or non-clad Aluminum based on test data (UN Manual of Tests and Criteria, Part III, Section 37.1 -Corrosion to metals). May include and are not limited to: Oxides of carbon.

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## 11. Toxicological Information

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<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Not expected to be a primary skin irritant.
<b>Eye contact</b>	Acute Dermal Irritation: Slight, no erythema or edema at 72 hours (EPA Category IV). Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Acute Eye Irritation: Minimal, all effects cleared in 24 hours (EPA Category IV). May cause stomach distress, nausea or vomiting.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	slight irritation

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Thymox Disinfectant Spray (CAS Mixture)		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg, (EPA Category IV)
<i>Inhalation</i>		
LC50	Rat	> 2.1 mg/L, (EPA Category IV)
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, (EPA Category IV)
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Thymol (CAS 89-83-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	980 mg/kg, ECHA
<b>Skin corrosion/irritation</b>	Acute Dermal Irritation: Slight, no erythema or edema at 72 hours (EPA Category IV).	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Acute Eye Irritation: Minimal, all effects cleared in 24 hours (EPA Category IV).	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	Acute Dermal Irritation: Slight, no erythema or edema at 72 hours (EPA Category IV).	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	Non-hazardous by OSHA criteria.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	Not listed.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>	Not regulated.	
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>	Not listed.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Chronic effects</b>	Not available.	
<b>Further information</b>	Not available.	

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## 12. Ecological Information

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**Ecotoxicity** Not toxic to aquatic life (IC50 > 100 mg/L, report EPS 1 / RM / 24)

Method: Microtox® Acute Toxicity Test

Test organism: *Vibrio fischeri*

Results:

CI 50-5 min 560mg/l

IC 95 %-5 min 500-600 mg/L

CI 50-15 min 660 mg/L

IC 95 %-15 min 540-780 mg/L

### Ecotoxicological data

#### Components

Thymol (CAS 89-83-8)

#### Aquatic

Fish

Species

LC50

Fathead minnow (*Pimephales promelas*) 3.2 mg/L, 96 hours

#### Test Results

**Persistence and degradability** 100% biodegradable in less than 14 days per OECD 301E method.

**Bioaccumulative potential** Not available.

#### Partition coefficient n-octanol / water (log Kow)

Thymol

3.3

**Mobility in soil** Not available.

**Mobility in general** Not available.

**Other adverse effects** Not available.

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## 13. Disposal Considerations

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**Disposal instructions** Do not reuse or refill this container except as described in the directions for use. Refill only with this product. If not refilling, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Store containers and offer for recycling of material when in accordance with the local regulations. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

### IATA/ICAO (Air)

Not regulated as dangerous goods.

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## 15. Regulatory Information

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### US federal regulations

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NSF Registration Number: 150508

EPA 87742-1

Keep out of reach of children.

Classified as a Category IV by the U.S. Environmental Protection Agency (EPA) per toxicity profile Review for all routes of exposure: no signal words, no precautionary statements or first aid statements required on product label.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** See below

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

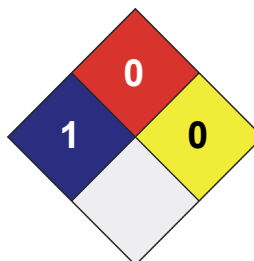
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

<b>HEALTH</b>	/ 1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	X



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date** 03-March-2021

**Version #** 01

**Further information** Not available.

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