



# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Methyl Salicylate  
PRODUCT NUMBER: S7785  
COMPANY INFO: *PhytoTechnology Laboratories*®  
PO Box 12205, Shawnee, KS 66282-2205  
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442  
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only  
1-352-323-3500 - International

RECOMMENDED USE: Research Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories*® are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H302 – Acute toxicity, Oral (Category 4)  
H402 – Acute aquatic toxicity (Category 3)

GHS Label Element:

Pictogram:



Signal Word: **Warning**

Hazard Statements:

H302 – Harmful if swallowed.  
H402 – Harmful to aquatic life.

Precautionary Statements:

P273 – Avoid release to the environment.  
P301 + P312 + P330– IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: MeSA; 2-Hydroxybenzoic acid methyl ester; Methyl 2-hydroxybenzoate; Wintergreen Oil  
CAS No.: 119-36-8  
Formula: C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>  
Molecular Weight: 152.15  
EC No.: 204-317-7

Ingredient	CAS Number	Percent	Hazardous
Methyl salicylate	119-36-8	100%	No exposure limits established by OSHA or ACGIH

## 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry

Symptoms

First Aid Procedures

Ingestion

May cause irritation if swallowed

If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. **Get medical attention.**

Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon dioxide and carbon monoxide.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let product enter drains.

### 7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Product is light sensitive. Protect from light.
Incompatibilities:	Strong oxidizing agent, strong bases
Recommended Storage Temperature:	Room Temperature

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	No data available
Threshold Limit Values (TLVs):	No data available
Engineering Controls:	Handle in accordance to general industrial hygiene and safety practice.
Personal Protective Equipment (PPE):	
Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves  
Body Protection: Lab coat  
Respiratory Protection: Wear appropriate respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid (colorless to yellow to orange to green)  
pH: No data available  
Solubility: Water 1.25 g/mL  
Melting Range: -8°C to -7°C (18°F-19°F) - lit.  
Vapor Density: 5.25 – (Air = 1.0)  
Vapor Pressure: 1 hPa (1 mm Hg) at 54°C (129°F)  
Odor: No data available  
Odor Threshold: No data available  
Viscosity: No data available  
Relative Density: 1.174 g/cm<sup>3</sup> at 25°C (77°F)  
Evaporation Rate: No data available  
Initial Boiling Point and Boiling Range: 222°C (432°F)  
Flammability (solid, gas): No data available  
Partition coefficient: No data available  
n-octanol/water):  
Auto-ignition Temperature: 453°C (847°F)  
Decomposition Temperature: No data available  
Flash Point (Closed Cup): 96°C (205°F)  
Flammable Limits: Upper (%) – No data available Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available  
Chemical Stability: Stable under normal conditions of use  
Possibility of Hazard Reactions: Will not occur  
Conditions to Avoid: Heat, Light  
Incompatibles Materials: Strong bases, Strong Oxidizing Agents  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 887  
LD<sub>50</sub> (Inhale-Mouse)(mg/Kg): No Data Available  
LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): >5000  
Carcinogenicity: NTP: No  
IARC: No  
Z List: No  
OSHA Reg: No  
Reproductive Toxicity: Laboratory experiments have shown teratogenic effects.

Symptoms Associated with Overexposure: Mild chronic salicylate intoxication is termed salicylism. Symptoms include: headache, dizziness, ringing in the ears, difficulty in hearing, dimness of vision, mental confusion, lassitude, drowsiness, sweating, thirst, hyperventilation, nausea, vomiting, and occasionally diarrhea. A more severe degree of salicylate intoxication is characterized by more pronounced CNS disturbances (including generalized convulsions and coma), skin eruptions, and marked alterations in acid-base balance.

Specific Target Organ Toxicity: Single Exposure: No data available  
Repeated Exposure: No data available

Target Organs: Stomach

Medical Conditions Aggravated By Exposure: None identified

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS No: VO4725000

***The toxicological properties of this product have not been thoroughly investigated***

**12. ECOLOGICAL INFORMATION**

Ecotoxicity: Toxicity to fish – LC50 – zebra fish - >100 mg/L – 96 hrs  
Toxicity to algae – EC50 – green algae – 27 mg/L - 72 hrs

Persistence and Degradability: 98.4% biodegradable

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: Harmful to aquatic life

**13. DISPOSAL CONSIDERATION**

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: No data available

**14. TRANSPORT INFORMATION**

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A  
UN/NA: N/A  
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A  
UN/NA: N/A  
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A  
UN/NA: N/A  
Labels: N/A

**15. REGULATORY INFORMATION**

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No  
 Section 313 Ingredients: No  
 Section 304 (EHS/CERCLA) Ingredients: No  
 Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard  
 Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.  
 Pennsylvania Right to Know Components: CAS No.: 119-36-8 Methyl salicylate  
 New Jersey Right to Know Components: CAS No.: 119-36-8 Methyl salicylate  
 California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

HMIS Rating:	<b>Health Hazard</b>	<b>Chronic Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>
	1	*	1	0
NFPA Rating:	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>	<b>Special Hazard</b>
	0	1	0	

\*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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