

# Material Safety Data Sheet (MSDS)

**Product Name:** Methyl Salicylate IP Grade (Wintergreen Oil)

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

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## 1. Identification of the Substance/Preparation and Company

- **Product Name:** Methyl Salicylate (Wintergreen Oil) – IP Grade
- **Chemical Formula:**  $C_8H_8O_3$
- **Synonyms:** Oil of Wintergreen, Salicylic Acid Methyl Ester
- **Molecular Weight:** 152.15 g/mol
- **Recommended Use:** Pharmaceutical, topical analgesics, flavoring, fragrance.

## 2. Hazards Identification

- **Classification:**
  - Flammable Liquid – Category 4
  - Acute Toxicity (Oral) – Category 4
  - Skin Irritant – Category 2
  - Eye Irritant – Category 2A

- **Signal Word:** Warning
  - **Hazard Statements:**
    - H302: Harmful if swallowed
    - H315: Causes skin irritation
    - H319: Causes serious eye irritation
    - H227: Combustible liquid
  - **Precautionary Statements:**
    - Avoid inhalation and skin contact
    - Keep away from heat/sparks/open flame
    - Use protective gloves and goggles
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### 3. Composition / Information on Ingredients

- **Methyl Salicylate:** 99–100%
  - **CAS No.:** 119-36-8
  - **EC No.:** 204-307-1
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### 4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
  - **Skin Contact:** Wash with plenty of water and soap. Remove contaminated clothing.
  - **Eye Contact:** Rinse cautiously with water for 15 minutes. Get medical attention.
  - **Ingestion:** Do not induce vomiting. Seek immediate medical advice.
  - **Most Important Symptoms:** Burning sensation, headache, nausea, irritation.
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### 5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, foam.
- **Specific Hazards:** Combustible; vapors may form explosive mixtures.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

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## 6. Accidental Release Measures

- Evacuate area; ensure ventilation.
- Absorb spill with inert material (sand, dry earth).
- Avoid entry into drains.
- Wear protective gloves, goggles, and mask.

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## 7. Handling and Storage

- Handle in well-ventilated area.
- Keep container tightly closed.
- Store away from heat, ignition sources, and oxidizing agents.
- Avoid contact with eyes and skin.

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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protection:**
  - Gloves (nitrile/rubber)
  - Protective goggles
  - Lab coat
  - Avoid inhalation of vapors.

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## 9. Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Wintergreen, aromatic
- **Boiling Point:** 220–225°C
- **Melting Point:** -8°C
- **Flash Point:** ~96°C

- **Solubility:** Slightly soluble in water; soluble in alcohol
  - **Specific Gravity:** 1.17–1.19
  - **Vapor Pressure:** Low
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## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions
  - **Avoid:** Heat, sparks, oxidizing agents
  - **Decomposition Products:** CO, CO<sub>2</sub>, irritating fumes
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## 11. Toxicological Information

- **Acute Toxicity:** Harmful if swallowed
  - **Skin:** Causes irritation
  - **Eyes:** Causes irritation
  - **Inhalation:** May cause respiratory irritation
  - **Chronic Effects:** Prolonged exposure may affect kidneys/liver.
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## 12. Ecological Information

- Harmful to aquatic life in large quantities
  - Biodegradable but avoid release to environment
  - No significant bioaccumulation expected
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## 13. Disposal Considerations

- Dispose according to local regulations
  - Do not release into drains
  - Contaminated containers should be disposed of as hazardous waste
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## 14. Transport Information (DETAILED)

**UN Number:** *Not classified as dangerous under most transport regulations; however, handle as a combustible liquid.*

#### **A. Road Transport (ADR/RID):**

- **Classification:** Not regulated as hazardous
- **Proper Shipping Name:** Methyl Salicylate
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Label:** None required (recommended: “Combustible Liquid”)
- **Special Provisions:**
  - Avoid transport with strong oxidizers
  - Containers must be tightly closed
  - Transport in upright position

#### **B. Sea Transport (IMDG):**

- **Not regulated as a marine pollutant**
- **IMDG Code:** Not classified
- **Packaging:** Use sealed HDPE / GI drums
- **Precautions:**
  - Keep away from sources of heat
  - Provide ventilation in container storage areas

#### **C. Air Transport (IATA):**

- **IATA Classification:** Not restricted
- **Shipping Name:** Methyl Salicylate
- **Cargo Notes:**
  - Avoid leakage—vapors may irritate
  - Ensure compliant packaging

#### **D. General Transport Notes (Detailed):**

- Transport in cool, dry, well-ventilated conditions
  - Keep away from direct sunlight & ignition
  - Use approved containers (HDPE, steel drums, IBC tanks)
  - Ensure secondary containment to prevent spills
  - Emergency procedures should be available in case of leak
  - Vehicle should carry MSDS and emergency contact details
  - Drivers should avoid smoking near load
  - Ensure compliance with local transport regulations in receiving country
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## 15. Regulatory Information

- Complies with IP pharmaceutical grade requirements
  - Not classified as a hazardous chemical under many regulations but treat as irritant/combustible
  - Ensure compliance with local chemical safety rules
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## 16. Other Information

- Users must ensure safe handling practices suitable for their operations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.