

# Isopropyl Myristate (IPM) MSDS

## 1. Product Name and Identification

- **Product Name:** [Isopropyl Myristate \(IPM\)](#)
  - **Chemical Formula:** C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>
  - **CAS Number:** 110-27-0
  - **Synonyms:** Myristic Acid Isopropyl Ester, IPM
  - **Recommended Use:** Emollient in cosmetics, pharmaceutical formulations, and industrial applications.
  - **Manufacturer/Supplier:** [Insert Manufacturer Name and Contact Information]
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## 2. Composition/Ingredients

- **Chemical Name:** Isopropyl Myristate
  - **CAS Number:** 110-27-0
  - **Concentration:** ≥ 99% (by weight)
  - **Impurities:** None known
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## 3. Hazards Identification

- **Classification:**
    - Not classified as hazardous under GHS criteria.
  - **Label Elements:**
    - **Signal Word:** None required
    - **Hazard Statements:**
      - May cause mild skin or eye irritation in sensitive individuals.
    - **Precautionary Statements:**
      - Avoid prolonged contact with skin and eyes.
      - Wash hands thoroughly after handling.
  - **Other Hazards:**
    - May cause environmental harm if released in large quantities.
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## 4. First Aid Measures

- **Inhalation:** Move the person to fresh air. If symptoms persist, seek medical attention.

- **Skin Contact:** Wash affected area with soap and water. If irritation occurs, seek medical advice.
  - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
  - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if symptoms occur.
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## 5. Handling and Storage

- **Handling:**
    - Use in a well-ventilated area.
    - Avoid contact with skin, eyes, and clothing.
    - Wear appropriate personal protective equipment (PPE).
  - **Storage:**
    - Store in a cool, dry, and well-ventilated area.
    - Keep container tightly closed.
    - Protect from heat, direct sunlight, and incompatible materials.
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## 6. Exposure Controls/Personal Protection

- **Exposure Limits:** No specific occupational exposure limits established.
  - **Engineering Controls:** Ensure adequate ventilation or use local exhaust systems.
  - **Personal Protective Equipment (PPE):**
    - **Eye Protection:** Safety goggles or face shield.
    - **Skin Protection:** Chemical-resistant gloves and protective clothing.
    - **Respiratory Protection:** Not typically required under normal use. Use a respirator if mist or vapor is generated.
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## 7. Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Faint, characteristic odor
- **pH:** Not applicable
- **Melting Point:** ~2°C
- **Boiling Point:** ~167°C
- **Flash Point:** ~102°C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Density:** ~0.85 g/cm<sup>3</sup>
- **Viscosity:** Low viscosity

- **Molecular Weight:** 270.45 g/mol
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## 8. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
  - **Conditions to Avoid:** Excessive heat, open flames, and strong oxidizing agents.
  - **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
  - **Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>) may form upon combustion.
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## 9. Toxicological Information

- **Acute Toxicity:**
    - Oral LD<sub>50</sub> (Rat): > 5000 mg/kg (low toxicity)
  - **Skin Irritation:** May cause mild irritation with prolonged exposure.
  - **Eye Irritation:** May cause mild irritation.
  - **Chronic Effects:** No known significant effects with normal use.
  - **Carcinogenicity:** Not classified as a carcinogen by IARC, NTP, or OSHA.
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## 10. Disposal Considerations

- **Waste Disposal Methods:** Dispose of in accordance with local, regional, and national regulations.
  - **Packaging Disposal:** Ensure containers are empty before disposal. Rinse thoroughly and recycle if possible.
  - **Environmental Precautions:** Avoid release into waterways or soil.
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