

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal Large

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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

- **Product Name:** Menthol Crystal Large
- **Chemical Name:** Menthol
- **Synonyms:** Peppermint camphor, Hexahydro thymol
- **Recommended Use:** Flavoring agent, pharmaceutical, cosmetic, and personal care ingredient.

2. Hazard Identification

- **Classification (GHS):**
 - Flammable solids, Category 4
 - Skin irritation, Category 2
 - Eye irritation, Category 2A
 - Specific target organ toxicity (single exposure), Category 3 (respiratory tract irritation)

- **Label Elements:**
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - H227: Combustible solid
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation
- **Precautionary Statements:**
 - Keep away from heat and sources of ignition.
 - Wear protective gloves/eye protection.
 - Avoid inhalation of dust/vapors.
 - Wash thoroughly after handling.

3. Composition / Information on Ingredients

- **Chemical Formula:** C₁₀H₂₀O
- **CAS Number:** 2216-51-5
- **EC Number:** 201-939-0
- **Purity:** ≥ 99%

4. First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Get medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO₂, foam, or water spray.
- **Special Hazards:** Combustible solid; may emit toxic fumes under fire conditions (carbon oxides).
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Ensure adequate ventilation.
- Sweep up and place in suitable container for disposal.
- Prevent entry into drains or water sources.

7. Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapors/dust. Use protective equipment.
- **Storage:** Store in tightly closed containers, in a cool, dry, and well-ventilated place away from direct sunlight and sources of ignition.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Use with adequate ventilation.
- **Personal Protective Equipment (PPE):**
 - Respiratory protection: Dust mask/respirator.
 - Hand protection: Protective gloves.
 - Eye protection: Safety glasses/goggles.
 - Skin protection: Protective clothing.

9. Physical and Chemical Properties

- Appearance: Colorless to white crystals
 - Odor: Characteristic peppermint odor
 - Melting Point: 41–44 °C
 - Boiling Point: 212 °C
 - Flash Point: 93 °C (closed cup)
 - Solubility: Slightly soluble in water; soluble in alcohol, chloroform, and ether
 - Vapor Pressure: Low
 - Density: ~0.9 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Heat, flames, sparks, and strong oxidizing agents.
 - **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.
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11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat): ~3,300 mg/kg
 - **Skin irritation:** Irritant
 - **Eye irritation:** Irritant
 - **Sensitization:** May cause allergic reactions in sensitive individuals.
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12. Ecological Information

- **Ecotoxicity:** Harmful to aquatic life in large quantities.
 - **Persistence/Degradability:** Biodegradable.
 - **Bioaccumulation Potential:** Low.
 - **Mobility in Soil:** Low due to low water solubility.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Avoid release to the environment.
- Incineration or landfill in approved facility recommended.

14. Transport Information (Detailed)

- **UN Number:** UN 2811 (Toxic Solid, Organic, N.O.S. — Menthol may be classified under this depending on jurisdiction)
- **UN Proper Shipping Name:** Menthol (solid)
- **Transport Hazard Class:** 6.1 (Toxic substances) or not regulated depending on quantity and purity
- **Packing Group:** III
- **Label Required:** Toxic substance label (if regulated)
- **Environmental Hazards:** Not classified as a marine pollutant
- **Special Precautions for User:**
 - Keep containers tightly sealed.
 - Protect from physical damage during transport.
 - Avoid exposure to high temperature and moisture.
- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not applicable for solid menthol in packaged form.

Regulatory Notes:

- Transportation regulations may vary by country.
- In most cases, Menthol crystals are transported as **non-dangerous goods** when shipped in limited quantities, but bulk quantities may require classification under UN 2811.
- Shippers should consult the latest IATA, IMDG, ADR, and local transport regulations before shipment.

15. Regulatory Information

- Listed on inventory: TSCA (USA), EINECS (EU), DSL (Canada), AICS (Australia).

- Classified as Generally Recognized As Safe (GRAS) by FDA for food use.

16. Other Information

- **Disclaimer:** The information provided in this MSDS is based on data believed to be accurate as of the revision date. It is provided for guidance only and does not constitute a warranty. Users are responsible for ensuring safe handling and compliance with applicable regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.