

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal IP/BP/USP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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

- **Product Name:** Menthol Crystal IP/BP/USP Grade
- **Chemical Name:** (-)-Menthol
- **Synonyms:** Hexahydrothymol, Cyclohexanol derivative
- **Molecular Formula:** C₁₀H₂₀O
- **Molecular Weight:** 156.27 g/mol
- **Recommended Use:** Pharmaceutical, cosmetic, food flavoring, personal care, and industrial applications.

2. Hazards Identification

- **Classification (GHS):**
 - Irritant to skin and eyes (Category 2)

- May cause respiratory irritation
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation
 - **Precautionary Statements:**
 - P261: Avoid breathing dust or vapors
 - P280: Wear protective gloves/eye protection
 - P305+P351+P338: If in eyes, rinse cautiously with water
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3. Composition/Information on Ingredients

- **Chemical Identity:** Menthol (natural or synthetic)
 - **CAS Number:** 2216-51-5
 - **EINECS Number:** 201-939-0
 - **Purity:** ≥ 99%
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4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if breathing difficulties persist.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with water for at least 15 minutes. Seek medical attention.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, CO₂, water spray.
 - **Hazardous Combustion Products:** Carbon monoxide, carbon dioxide.
 - **Special Protective Equipment:** Use self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Use gloves, goggles, and dust mask. Avoid inhalation.
 - **Environmental Precautions:** Prevent entry into drains, waterways, or soil.
 - **Spill Cleanup Methods:** Sweep up crystals, place in a suitable container, and dispose in accordance with regulations.
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7. Handling and Storage

- **Handling:** Avoid dust formation. Use in well-ventilated areas. Avoid direct contact.
 - **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed and away from heat sources.
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8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** Not established.
 - **Engineering Controls:** Provide adequate ventilation.
 - **Personal Protective Equipment:**
 - Respiratory: Dust mask or respirator.
 - Skin: Gloves and protective clothing.
 - Eyes: Safety goggles.
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9. Physical and Chemical Properties

- **Appearance:** Colorless to white needle-like 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 ethanol, chloroform, ether, and oils
 - **Vapor Pressure:** Low
 - **Stability:** Stable under recommended conditions
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10. Stability and Reactivity

- **Stability:** Stable at room temperature.
 - **Conditions to Avoid:** Excessive heat, flames, sparks.
 - **Incompatible Materials:** Strong oxidizing agents, strong acids.
 - **Hazardous Decomposition Products:** CO, CO₂.
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11. Toxicological Information

- **Acute Oral Toxicity (LD₅₀):** 3,180 mg/kg (rat)
 - **Inhalation:** May cause respiratory irritation.
 - **Skin Contact:** Irritant. Prolonged exposure may cause dermatitis.
 - **Eye Contact:** Irritant, may cause redness and pain.
 - **Carcinogenicity:** Not classified as carcinogenic.
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12. Ecological Information

- **Toxicity:** Slightly toxic to aquatic life.
- **Persistence/Degradability:** Biodegradable.

- **Bioaccumulation:** Not expected.
- **Mobility:** Low in soil and water.

13. Disposal Considerations

- Dispose of in accordance with local, state, and national regulations.
- Avoid discharge into the environment.

14. Transport Information (Detailed)

- **UN Number:** Not classified as hazardous under UN transport regulations.
- **UN Proper Shipping Name:** Not regulated as dangerous goods.
- **Transport Hazard Class(es):** Not applicable.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** Not considered environmentally hazardous.
- **Special Precautions for User:**
 - Avoid exposure to direct sunlight and heat sources during transport.
 - Transport in tightly sealed containers to prevent spillage.
 - Keep away from strong oxidizers and acids.
- **Regulatory Transport Information:**
 - **ADR/RID (Road/Rail – Europe):** Not regulated as hazardous.
 - **IMDG (Sea):** Not regulated; transport as general cargo.
 - **IATA (Air):** Not regulated; handle as general cargo.
 - **DOT (USA):** Not regulated as hazardous.
- **Additional Information:**

Menthol crystals may soften or melt under high-temperature transport conditions; ensure refrigerated or cool shipment in hot climates.

15. Regulatory Information

- **TSCA (USA):** Listed
- **EINECS (EU):** Listed
- **REACH (EU):** Exempted (natural product)
- **Other Regulations:** Complies with IP/BP/USP pharmacopeial standards

16. Other Information

- This MSDS has been prepared in accordance with GHS guidelines.
- The information is believed to be correct but does not claim to be exhaustive. Users are responsible for ensuring safe working conditions.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.