

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal Small

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:** Menthol Crystal Small
- **Synonyms:** Menthol, l-Menthol
- **Chemical Formula:** C₁₀H₂₀O
- **CAS No.:** 89-78-1
- **EC No.:** 201-939-0

2. Hazard Identification

- Classification (GHS):
 - Irritant to skin and eyes
 - May cause respiratory irritation
- Hazard Statements:

- H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
 - H335: May cause respiratory irritation.
 - Precautionary Statements:
 - P261: Avoid breathing dust/fumes.
 - P280: Wear protective gloves/eye protection.
 - P305+P351: IF IN EYES – Rinse cautiously with water.
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3. Composition / Information on Ingredients

- Chemical Name: Menthol (l-Menthol)
 - Purity: ≥ 99%
 - CAS Number: 89-78-1
 - EINECS: 201-939-0
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4. First Aid Measures

- Inhalation: Move to fresh air. If breathing difficulty persists, seek medical attention.
 - Skin Contact: Wash immediately with soap and water. Remove contaminated clothing.
 - Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Seek medical attention.
 - Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice.
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5. Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical powder.
 - Fire/Explosion Hazards: Combustible solid; vapors may form explosive mixtures.
 - Protective Equipment: Use self-contained breathing apparatus and full protective gear.
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6. Accidental Release Measures

- Personal Precautions: Use protective gloves, mask, and goggles.
- Environmental Precautions: Prevent from entering drains, soil, or water bodies.
- Method of Cleaning: Sweep up carefully, avoid dust formation, place in suitable container.

7. Handling and Storage

- Handling: Avoid dust generation, inhalation, and skin/eye contact.
- Storage: Store in cool, dry, well-ventilated area away from heat and sunlight. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- Exposure Limits: Not established.
- Engineering Controls: Provide local exhaust ventilation.
- PPE: Safety glasses, protective gloves, dust mask/respirator.

9. Physical and Chemical Properties

- Appearance: Colorless to white crystals
- Odor: Characteristic minty odor
- Melting Point: 41–44 °C
- Boiling Point: 212 °C (decomposes)
- Solubility: Slightly soluble in water; soluble in alcohol and oils
- Flash Point: 93 °C (closed cup)

10. Stability and Reactivity

- Stability: Stable under recommended storage.
- Incompatible Materials: Strong oxidizing agents.
- Hazardous Decomposition: Carbon oxides on combustion.

11. Toxicological Information

- Acute Toxicity:
 - Oral LD50 (rat): ~ 3,300 mg/kg
 - Skin: Irritant
 - Eyes: Irritant
 - Sensitization: May cause allergic skin reaction in sensitive individuals.
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12. Ecological Information

- Ecotoxicity: Harmful to aquatic life with long lasting effects.
 - Persistence/Degradability: Expected to be biodegradable.
 - Bioaccumulation: Low potential.
 - Mobility in Soil: Low mobility due to limited solubility.
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13. Disposal Considerations

- Waste Disposal: Dispose in accordance with local regulations. Do not release into drains.
 - Contaminated Packaging: Dispose as per official regulations.
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14. Transport Information (Detailed Information)

- UN Number: UN 1993
- UN Proper Shipping Name: Flammable Solid, Organic, N.O.S. (Menthol)
- Transport Hazard Class: Class 4.1 (Flammable Solid)
- Packing Group: III
- Labels Required: Flammable solid
- Marine Pollutant: Yes (potential hazard to aquatic environment)
- Transport in Bulk (IMDG, IATA, ADR):
 - IMDG: Classified as hazardous, avoid release to sea.
 - IATA: Cargo and passenger aircraft permitted with restrictions.

- ADR/RID: Limited quantity provisions apply.
- Special Precautions: Protect from heat, sparks, and open flame. Keep away from strong oxidizers.
- Environmental Hazards: May cause adverse effects in aquatic environments. Prevent spillage into waterways during transport.

15. Regulatory Information

- Classified according to EC Regulation 1272/2008 (CLP).
- Not listed as a restricted chemical under REACH.

16. Other Information

- Key References: GHS guidelines, ECHA, OSHA, and published literature.
- Disclaimer: The information provided is believed to be correct but does not claim to be all-inclusive. Handle according to good industrial hygiene and safety practices.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.