

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal Medium

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 Medium
- **Synonyms:** L-Menthol, Peppermint Camphor
- **Molecular Formula:** $C_{10}H_{20}O$
- **Molecular Weight:** 156.27 g/mol
- **Intended Use:** Pharmaceutical, cosmetic, food flavoring, oral care, and industrial applications.

2. Hazard Identification

- **Classification (GHS):**
 - Eye irritation (Category 2A)
 - Skin irritation (Category 2)

- Specific target organ toxicity – single exposure (Category 3, respiratory tract irritation)
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - Causes skin and eye irritation.
 - May cause respiratory irritation.
 - **Precautionary Statements:**
 - Avoid breathing dust/fumes.
 - Wash hands thoroughly after handling.
 - Use only with adequate ventilation.
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3. Composition / Information on Ingredients

- **Substance:** Menthol (≥99%)
 - **CAS No.:** 2216-51-5
 - **EINECS No.:** 218-690-9
 - **Impurities:** No hazardous impurities present.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. If breathing difficulty persists, seek medical attention.
 - **Skin Contact:** Wash with soap and plenty of water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Get medical advice if irritation continues.
 - **Ingestion:** Rinse mouth, do not induce vomiting. Seek medical assistance.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical powder, carbon dioxide, water spray.
- **Special Hazards:** Combustible solid; vapors may form explosive mixtures with air.

- **Protective Equipment:** 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, sewers, or watercourses.

7. Handling and Storage

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

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use exhaust ventilation to keep airborne concentrations low.
- **Personal Protection:**
 - Respiratory: Dust mask if ventilation is insufficient.
 - Eye: Safety goggles.
 - Skin: Protective gloves and clothing.

9. Physical and Chemical Properties

- **Appearance:** Colorless, needle-like crystals
- **Odor:** Strong peppermint-like odor
- **Melting Point:** 41–44°C
- **Boiling Point:** 212°C
- **Flash Point:** 93°C (closed cup)

- **Solubility:** Slightly soluble in water; freely soluble in ethanol and oils.
 - **Density:** 0.89 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.
 - **Conditions to Avoid:** Excessive heat, sparks, open flames.
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11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (rat): ~3,300 mg/kg
 - **Irritation:** Causes skin and eye irritation.
 - **Chronic Effects:** Prolonged exposure may cause dermatitis or respiratory irritation.
 - **Carcinogenicity:** Not listed as carcinogenic.
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12. Ecological Information

- **Persistence and Degradability:** Biodegradable in soil and water.
 - **Bioaccumulation:** Low potential.
 - **Aquatic Toxicity:** Toxic to aquatic organisms at high concentrations.
 - **Precaution:** Prevent release into environment, especially water sources.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Do not discharge into drains or waterways.
 - Can be incinerated in a controlled facility.
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14. Transport Information

Detailed Information:

- **UN Number:** 2651
- **Proper Shipping Name:** Menthol
- **Transport Hazard Class:** Class 9 (Miscellaneous Dangerous Substances)
- **Packing Group:** III
- **Labeling Requirements:** Miscellaneous dangerous goods symbol
- **Marine Pollutant:** No (but avoid spillage into water systems as it may affect aquatic life).
- **Environmental Hazards:** Although not classified as a marine pollutant, menthol can cause localized toxicity to fish and aquatic invertebrates in case of spillage. Measures should be taken to contain leaks and spills during transportation.
- **Special Precautions:**
 - Transport in sealed containers.
 - Keep away from strong oxidizing agents, food items, and feed.
 - Protect from direct sunlight and high temperatures.
- **Regulatory Transport Modes:**
 - ADR/RID (Road/Rail): Not regulated as hazardous under most jurisdictions, but recommended to transport under controlled packaging.
 - IMDG (Maritime): Not regulated as dangerous goods, but ensure packaging prevents leakage.
 - IATA (Air Transport): Classified as non-dangerous for air shipping; however, packaging must comply with ICAO/IATA regulations.

15. Regulatory Information

- **Regulation (EC) No 1272/2008 [CLP/GHS]:** Classified for irritation hazards.
- **OSHA (US):** Non-hazardous under normal use, but regulated as irritant.
- **FDA/FAO/WHO:** Approved for use in food and pharmaceutical applications.

16. Other Information

- The information provided is believed to be accurate and reliable.

- It is the responsibility of the user to comply with local, regional, and national laws when handling this product.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.