

Material Safety Data Sheet (MSDS)

Product Name: Molten Menthol

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:** Molten Menthol
- **Synonyms:** Menthol (Melted form)
- **Recommended Use:** Pharmaceutical, flavoring, cosmetic, and personal care industries.
- **Restrictions on Use:** Industrial use only. Not intended for direct human consumption.

2. Hazards Identification

- **Classification (GHS):**
 - Flammable solid (Category 4, when cooled)
 - Eye irritation (Category 2A)
 - Skin irritation (Category 2)

- **Signal Word:** Warning
 - **Hazard Statements:**
 - Causes skin and eye irritation
 - May cause respiratory irritation
 - Combustible material in solid state
 - **Precautionary Statements:**
 - Keep away from heat/sparks/open flame
 - Avoid breathing vapors
 - Use protective gloves, clothing, and eye protection
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3. Composition / Information on Ingredients

- **Chemical Name:** Menthol
 - **CAS No.:** 2216-51-5
 - **Molecular Formula:** $C_{10}H_{20}O$
 - **Concentration:** >99%
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4. First Aid Measures

- **Inhalation:** Remove person to fresh air. Seek medical advice if irritation persists.
 - **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation continues.
 - **Ingestion:** Rinse mouth, do not induce vomiting. Get medical help immediately.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical powder, carbon dioxide (CO₂).
 - **Unsuitable Media:** High-pressure water jet.
 - **Fire Hazards:** Vapors may form explosive mixtures with air.
 - **Protective Equipment:** Firefighters should wear full protective gear and self-contained breathing apparatus.
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6. Accidental Release Measures

- Evacuate personnel from the area.
 - Avoid inhalation of vapors.
 - Absorb spills with inert absorbent material (sand, vermiculite).
 - Collect and dispose in accordance with local regulations.
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7. Handling and Storage

- Handle in well-ventilated area.
 - Use protective equipment to avoid direct contact.
 - Keep container tightly closed.
 - Store at controlled temperature; avoid exposure to direct sunlight.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** Adequate ventilation.
- **Personal Protective Equipment:**
 - Respiratory: Mask/respirator if ventilation inadequate
 - Hands: Chemical-resistant gloves

- Eyes: Safety goggles
- Body: Protective clothing

9. Physical and Chemical Properties

- **Appearance:** Clear, colorless to white liquid (molten)
- **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 & oils
- **Density:** ~0.89 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under recommended conditions
- **Hazardous Reactions:** None known under normal conditions
- **Conditions to Avoid:** Heat, flames, sparks
- **Incompatible Materials:** Strong oxidizing agents
- **Decomposition Products:** Carbon monoxide, carbon dioxide

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) ~ 3,300 mg/kg
- **Skin Irritation:** Causes mild to moderate irritation
- **Eye Irritation:** Irritating to eyes
- **Sensitization:** May cause allergic skin reaction in sensitive individuals

12. Ecological Information

- **Toxicity to Aquatic Life:** Harmful in large quantities
- **Persistence and Degradability:** Biodegradable
- **Bioaccumulation:** Low potential
- **Mobility in Soil:** Low mobility

13. Disposal Considerations

- Dispose of product in accordance with local, state, and national regulations.
- Do not dispose into drains or water bodies.
- Incineration in controlled facility recommended.

14. Transport Information (Detailed)

UN Number: Not classified as hazardous under UN transport regulations.

UN Proper Shipping Name: Menthol, molten (non-hazardous for transport)

Transport Hazard Class(es): Not regulated

Packing Group: Not applicable

Detailed Guidance:

- **Road/Rail Transport (ADR/RID):** Not classified as dangerous goods. Transport in closed containers to avoid leakage during transit.
- **Sea Transport (IMDG):** Not regulated as dangerous, but containers must be secured against tipping and leakage. Keep away from sources of heat.
- **Air Transport (IATA/ICAO):** Not classified as hazardous cargo; however, ensure packaging prevents spillage and exposure to elevated temperatures.
- **Special Precautions:**
 - Transport in molten state only under controlled conditions.

- Containers should be heat-resistant and sealed properly.
- Avoid storage near oxidizing agents or flammable substances during transport.
- Emergency procedures must be in place in case of spillage during transit.

15. Regulatory Information

- Not classified as hazardous under global transport regulations.
- Complies with REACH, FDA, and pharmacopeia quality standards.

16. Other Information

- This MSDS is prepared in accordance with GHS guidelines.
- Information provided is believed to be accurate and represents the best knowledge available as of the revision date.
- Users must ensure suitability of the product for intended applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.