

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal Large 100% Pure

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
Science City Road,
Sola Ahmedabad Gujarat,
India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

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

Product Name: Menthol Crystal Large 100% Pure

Chemical Name: (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol

CAS No.: 2216-51-5

EINECS No.: 201-939-0

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.27 g/mol

Recommended Use: Used in pharmaceuticals, cosmetics, food flavoring, oral care, and aromatherapy.

Restrictions: For industrial use only. Not for direct human consumption.

2. Hazards Identification

Classification:

- Irritant (Eye, Skin)
- Flammable Solid (Category 2)

Hazard Statements:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H228: Flammable solid.

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames.
- P280: Wear protective gloves/eye protection.
- P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes.

3. Composition / Information on Ingredients

Chemical Identity: Menthol (L-Menthol)

CAS No.: 89-78-1

Purity: 100%

Synonyms: Levomenthol, Hexahydrothymol

4. First Aid Measures

- **Inhalation:** Move the person to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.
 - **Ingestion:** Rinse mouth and drink water. Do not induce vomiting. Seek medical attention if necessary.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, CO₂, or water spray.

- **Unsuitable Media:** Do not use high-pressure water jets.
- **Specific Hazards:** Combustion may release carbon monoxide and carbon dioxide.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

- Remove all ignition sources.
- Ventilate the area.
- Avoid contact with skin and eyes.
- Collect material in suitable containers for disposal.
- Wash spill area with detergent and water.

7. Handling and Storage

Handling:

- Avoid breathing vapors or dust.
- Handle in well-ventilated areas.
- Keep away from heat and open flames.

Storage:

- Store in a cool, dry, well-ventilated area.
- Keep container tightly closed.
- Protect from light and moisture.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use local exhaust ventilation.
- **Personal Protective Equipment:**
 - **Eye Protection:** Safety goggles.
 - **Skin Protection:** Protective gloves and clothing.

- **Respiratory Protection:** Mask if ventilation is inadequate.
- **Hygiene Measures:** Wash hands before breaks and after handling.

9. Physical and Chemical Properties

Menthol Crystal Large 100% Pure appears as a colorless to white crystalline solid with a characteristic minty odor. It has a melting point of approximately 41 to 44°C and a boiling point of about 212°C. The substance is slightly soluble in water but freely soluble in alcohol, chloroform, and ether. It possesses a flash point around 93°C (closed cup) and a specific gravity of approximately 0.89. The product is neutral in pH and exhibits a vapor pressure of about 0.05 mmHg at 25°C.

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, sparks, and open flames.

Incompatible Materials: Strong oxidizing agents.

Decomposition Products: Carbon monoxide and carbon dioxide.

11. Toxicological Information

- **Acute Toxicity:** LD50 (Oral, Rat): 3300 mg/kg
- **Skin Corrosion/Irritation:** Mild irritant
- **Eye Damage/Irritation:** Causes eye irritation
- **Sensitization:** May cause allergic reaction in sensitive individuals.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long-lasting effects.
- **Persistence/Degradability:** Readily biodegradable.
- **Bioaccumulation:** Low potential.
- **Mobility in Soil:** Low mobility.

13. Disposal Considerations

- Dispose of contents and containers according to local/regional regulations.
- Do not discharge into drains or natural water sources.
- Recycle empty containers where possible.

14. Transport Information (Detailed)

UN Number: UN 1325

Proper Shipping Name: Flammable Solid, Organic, N.O.S. (Contains Menthol)

Transport Hazard Class: 4.1 (Flammable Solid)

Packing Group: III

Label Required: Flammable Solid

Transportation Notes:

- **Road/Rail (ADR/RID):** Class 4.1, Packing Group III. Keep away from heat and direct sunlight. Transport in closed, labeled containers.
- **Sea (IMDG):** Class 4.1, UN1325, PG III. Marine pollutant: Yes. Keep away from oxidizing materials. Store below 30°C.
- **Air (IATA):** Class 4.1, UN1325, PG III. Flammable solid; handle with care. Avoid crushing of containers.
- **Environmental Hazards:** Not classified as environmentally hazardous but should not be released to the environment.
- **Special Precautions:** Ensure proper ventilation during loading/unloading. Avoid spillage during transport.

15. Regulatory Information

- **Labeling According to GHS:**
 - Pictograms:  
 - Signal Word: Warning
- **Regulations:** Complies with REACH and GHS classification norms.
- **Chemical Safety Assessment:** Conducted.

16. Other Information

Disclaimer:

The information above is believed to be accurate and represents the best data currently available to us. However, SBF Pharma makes no warranty, express or implied, and assumes no liability for its use. Users should make their own investigations to determine suitability for their particular purposes.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.