

Material Safety Data Sheet (MSDS)

Product Name: Menthol Crystal Small 100% Pure

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 Small 100% Pure

Synonyms: L-Menthol, Mentha arvensis extract

Chemical Formula: $C_{10}H_{20}O$

CAS Number: 2216-51-5

Use of Substance: Used in pharmaceuticals, cosmetics, flavoring, and personal care products.

2. Hazards Identification

Classification (GHS):

- Skin Irritation (Category 2)
- Eye Irritation (Category 2A)
- Specific Target Organ Toxicity – Single Exposure (Category 3)

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/vapours.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves and eye protection.
- P305+P351+P338: If in eyes, rinse cautiously with water for several minutes.

3. Composition / Information on Ingredients

Substance: Menthol

CAS No.: 89-78-1

Purity: 100%

4. First Aid Measures

Inhalation: Move to fresh air. If breathing is difficult, seek medical attention.

Skin Contact: Wash thoroughly with soap and water. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation continues.

Ingestion: Rinse mouth and drink water. Do not induce vomiting. Seek medical advice.

5. Fire Fighting Measures

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

Special Hazards: Combustible solid. Vapors may form explosive mixtures with air.

Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental Precautions: Prevent entry into drains, sewers, or waterways.

Spill Cleanup: Sweep up or vacuum and place into labeled containers for disposal.

7. Handling and Storage

Handling: Avoid inhalation of dust or vapors. Handle in a well-ventilated area.

Storage: Store in a cool, dry, and well-ventilated area. Keep container tightly closed and away from direct sunlight and heat sources.

8. Exposure Controls / Personal Protection

Engineering Controls: Use adequate ventilation to maintain safe exposure levels.

Personal Protective Equipment:

- **Respiratory Protection:** Use an approved respirator when exposure limits are exceeded.
 - **Skin Protection:** Wear protective gloves and clothing.
 - **Eye Protection:** Safety goggles or face shield.
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9. Physical and Chemical Properties

Appearance: Colorless or white crystalline solid

Odor: Strong minty odor

Melting Point: 41–44°C

Boiling Point: 212°C

Solubility: Slightly soluble in water; freely soluble in alcohol and ether

Flash Point: 93°C (Closed Cup)

Density: 0.89 g/cm³

Vapor Pressure: 0.4 mmHg at 25°C

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, sparks, flames, and incompatible materials.

Incompatible Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂) may form under fire conditions.

11. Toxicological Information

Acute Toxicity: LD₅₀ (oral, rat): 3,180 mg/kg

Skin Irritation: May cause irritation upon prolonged contact.

Eye Irritation: Causes irritation.

Inhalation: May cause respiratory tract irritation.

Chronic Effects: Prolonged exposure may cause allergic skin reactions.

12. Ecological Information

Ecotoxicity: Not considered harmful to aquatic life at low concentrations.

Persistence & Degradability: Biodegradable.

Bioaccumulative Potential: Low.

Mobility in Soil: Low mobility due to low solubility.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations.

Avoid release into the environment. Incinerate or use an approved chemical disposal company.

14. Transport Information (Detailed)

UN Number: 1993

UN Proper Shipping Name: Flammable Liquid, N.O.S. (Menthol)

Transport Hazard Class: 3 (Flammable Liquids)

Packing Group: III

Label Required: Flammable Liquid

Environmental Hazards: Not classified as a marine pollutant.

Transport by Road (ADR/RID):

- UN 1993, Class 3, PG III
- Limited Quantity: 5 L
- Hazard Identification No.: 30

Transport by Air (IATA):

- UN 1993, Class 3, PG III
- Packing Instruction (Passenger Aircraft): 355
- Packing Instruction (Cargo Aircraft): 366
- Max. Quantity: 60 L

Transport by Sea (IMDG):

- UN 1993, Class 3, PG III
- EMS Code: F-E, S-D
- Marine Pollutant: No
- Proper Shipping Name: Flammable Liquid, N.O.S. (Menthol)

Additional Transport Information:

Keep away from heat sources and direct sunlight during transport. Containers should remain sealed and upright to prevent leakage.

15. Regulatory Information

Regulation Compliance:

- GHS Compliant
- Listed in TSCA, REACH, and other international chemical inventories.
Hazard Symbols: Xi – Irritant, Xn – Harmful

16. Other Information

- **Disclaimer:**

The information provided in this MSDS is believed to be accurate and represents the best information currently available to SBF Pharma. However, SBF Pharma makes no warranty, express or implied, regarding the accuracy or completeness of this data. The user is responsible for ensuring safe handling and use according to applicable regulations.

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- MSDS are based on the manufacturer's provided information.