

Material Safety Data Sheet (MSDS)

Product Name: Rice 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:** Rice Menthol
- **Synonyms:** Natural Menthol, Menthol from Rice Source
- **CAS Number:** 2216-51-5
- **EC Number:** 201-939-0
- **Recommended Use:** Flavoring agent, fragrance, pharmaceutical intermediate, cosmetic ingredient.

2. Hazard Identification

- **Classification (GHS):**
 - Irritant to eyes and skin (Category 2).
 - May cause respiratory irritation (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.
 - P280: Wear protective gloves/eye protection.
 - P305+P351: If in eyes, rinse cautiously with water for several minutes.

3. Composition / Information on Ingredients

- **Chemical Name:** Menthol
- **Molecular Formula:** C₁₀H₂₀O
- **Molecular Weight:** 156.27 g/mol
- **Purity:** ≥ 99%

4. First Aid Measures

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

5. Firefighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, water spray.
- **Hazards:** Vapors may form explosive mixtures with air. Combustion produces carbon monoxide and carbon dioxide.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Ensure adequate ventilation.
- Use personal protective equipment.
- Collect spilled material mechanically. Place in suitable container for disposal.

7. Handling and Storage

- Handle in well-ventilated areas.
- Avoid contact with eyes and skin.
- Store in tightly closed containers in a cool, dry, and well-ventilated place.
- Keep away from heat, sparks, and open flame.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation.
- **Respiratory Protection:** Approved dust mask/respirator.
- **Skin Protection:** Protective gloves.
- **Eye Protection:** Safety goggles.
- **Hygiene Measures:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline solid or powder.
- **Odor:** Characteristic peppermint odor.
- **Melting Point:** 41–44 °C
- **Boiling Point:** 212 °C
- **Flash Point:** 93 °C (closed cup)
- **Solubility:** Insoluble in water, soluble in alcohol and oils.

- **Density:** 0.89 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Heat, flames, sparks, strong oxidizing agents.
- **Decomposition Products:** Carbon monoxide, carbon dioxide.

11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** LD50 ~ 3300 mg/kg
- **Skin Irritation:** May cause irritation.
- **Eye Irritation:** Causes irritation.
- **Respiratory Effects:** May cause cough, throat irritation.
- **Chronic Effects:** Prolonged exposure may cause sensitization in some individuals.

12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic life.
- **Persistence/Degradability:** Biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Low, due to crystalline nature.

13. Disposal Considerations

- Dispose of in accordance with local, regional, national, and international regulations.
- Do not discharge into drains or environment.
- Can be incinerated in approved facilities.

14. Transport Information (Detailed)

UN Number: 2651 (Menthol, solid)

UN Proper Shipping Name: Menthol, Solid

Transport Hazard Class(es): 9 – Miscellaneous hazardous substances

Packing Group: III

Label: Miscellaneous (Class 9)

ADR/RID (Europe):

- Class: 9
- UN Number: 2651
- Packing Group: III
- Hazard Identification No.: 90
- Environmental Hazard: No

IMDG (Sea):

- UN Number: 2651
- Class: 9
- Packing Group: III
- Marine Pollutant: No
- EMS Code: F-A, S-I

IATA (Air):

- UN Number: 2651
- Class: 9
- Packing Group: III
- Special Precautions: Keep away from foodstuffs, avoid direct sunlight and high temperature storage.

Transport Notes:

- Ensure containers are tightly sealed.
- Transport in compliance with national/international regulations.
- Avoid exposure to moisture, heat, and direct sunlight during transit.

15. Regulatory Information

- **TSCA (USA):** Listed.
- **EINECS (EU):** Listed.
- **REACH:** Pre-registered.
- **India:** Permitted for use in pharmaceuticals, cosmetics, and food applications (as per FSSAI guidelines).

16. Other Information

- This MSDS is provided for guidance only.
- The information is believed to be accurate but does not constitute a warranty.
- Users are responsible for ensuring safe handling and compliance with applicable laws.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.