



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

SAFETY DATA SHEET NATURAL MENTHOL (L-MENTHOL)

(As per GHS / SDS 16-Section Format)

SDS Version: 1.0 | Date of Issue: 26 September, 2026

SECTION 1: IDENTIFICATION

Product Name: Natural Menthol (L-Menthol)

Synonyms: L-Menthol; Levomenthol; L-p-Menthan-3-ol; 5-Methyl-2-(propan-2-yl)cyclohexan-1-ol

CAS No.: 2216-51-5 | **EC No.:** 218-690-9 | **FEMA No.:** 2665

Molecular Formula: C₁₀H₂₀O

Recommended Use: Flavour & Fragrance ingredient. Not for pharmaceutical/API use unless separately qualified and labelled for that purpose.

Supplier: Eco Organics, B-5/C-5 to C-7, D-20, Ajeetpur Indl. Estate, Rampur – 244901, U.P., India

Contact / Emergency Telephone: +91 94122 51810, +91 97209 99980 | Email: sales@ecorganics.org

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Skin Irritation – Category 2 (H315); Eye Irritation – Category 2 (H319)

Signal Word: WARNING

Hazard Statements: H315 – Causes skin irritation. H319 – Causes serious eye irritation.

Precautionary Statements:

P264 Wash exposed skin thoroughly after handling. P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing.

Other Hazards: Some SDS sources report additional or differing classifications for L-Menthol (e.g. respiratory irritation, more severe eye damage categories) depending on grade and use. This document uses the most consistently reported classification across independent sources; please verify against a manufacturer SDS for your specific grade before relying on this for regulatory purposes.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

Component: L-Menthol – CAS No. 2216-51-5

Concentration: L-Menthol Min. 99.0% (per specification)

SECTION 4: FIRST-AID MEASURES

Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

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

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if feeling unwell.

SECTION 5: FIRE-FIGHTING MEASURES

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

Unsuitable Media: Do not use a direct/solid water jet, as it may spread the fire.

Specific Hazards: Combustible; flash point approx. 93°C. Finely divided material (dust/powder) may be capable of dust explosion under certain conditions – avoid dust accumulation and static ignition sources.

Firefighter Protection: Wear self-contained breathing apparatus (SCBA) and full protective gear.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Wear appropriate PPE. Avoid generating dust.

Environmental Precautions: Prevent entry into drains, water courses, or soil.

Containment / Clean-up: Sweep/collect material into suitable closed containers for disposal or recovery. Avoid dust generation. Do not allow to enter sewers or waterways.

SECTION 7: HANDLING AND STORAGE

Handling: Wear safety glasses/goggles and rubber gloves when handling. Use proper grounding procedures when transferring material to or from containers. Avoid contact with skin and eyes and avoid generating dust, particularly when handling the crystalline solid.

Storage: Store at room temperature in a closed container, in a dark, fresh and dry place, lined with a thermocol sheet, as per product specification. Keep away from heat and ignition sources.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No specific Indian or international OEL identified in the sources reviewed; consult your EHS professional.

Engineering Controls: Use with adequate general or local exhaust ventilation, particularly where dust may be generated.

PPE – Eyes/Face: Chemical safety goggles or face shield.

PPE – Skin/Hands: Rubber or chemical-resistant gloves.

PPE – Respiratory: Use a dust mask or approved respirator if handling generates dust or vapour and ventilation is inadequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to white hexagonal crystals or needles (solid at room temperature)
Odour	Characteristic, pleasant, minty
Molecular Formula	C ₁₀ H ₂₀ O
Molecular Weight	156.27 g/mol
Melting Point	41.0°C to 44.0°C (per specification)
Boiling Point	Approx. 214.6°C (literature)
Flash Point	Approx. 93°C (>199°F), Closed Cup (literature)
Optical Rotation (25°C)	(-) 49.0° to (-) 51.0° (per specification)
Solubility in Water	Practically insoluble in water; very soluble in ethanol, ether, chloroform and glacial acetic acid
Purity	L-Menthol (Assay) Min. 99.0% (by GC)

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid: Heat, open flames, and other ignition sources; dust accumulation.

Incompatible Materials: Strong oxidizing agents, strong acids/bases.

Hazardous Decomposition: Carbon monoxide, carbon dioxide, and irritant/acrid smoke on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Reported oral LD₅₀ (rat) approx. 3,300 mg/kg and dermal LD₅₀ (rabbit) >5,000 mg/kg (literature) – generally regarded as low acute toxicity.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation: Vapours or dust may cause irritation to the respiratory tract.



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Chronic Effects: No specific chronic hazard data identified; avoid prolonged or repeated exposure as good practice.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No formal aquatic hazard classification identified as consistent across sources reviewed; avoid release to the environment as good practice.

Persistence / Degradability: Expected to be biodegradable based on chemical structure.

Bioaccumulation: Limited specific data available.

Mobility: Practically insoluble in water; expected to have low mobility in soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local, state and central pollution control regulations. Do not discharge into drains or water courses. Contaminated packaging should be handled and disposed of as hazardous waste through an authorised waste handler.

SECTION 14: TRANSPORT INFORMATION

Based on the classification identified (Skin/Eye Irrit. 2 only), this material is not generally expected to meet the criteria for a Dangerous Good under ADR/IMDG/IATA. This has not been independently verified against a formal transport classification database — please confirm with your freight forwarder before shipment, particularly given the note on dust explosion potential in Section 5.

SECTION 15: REGULATORY INFORMATION

This product is supplied as a Flavour & Fragrance ingredient. If intended for pharmaceutical, oral care, or other regulated end-use applications, the buyer is responsible for ensuring the material meets the applicable pharmacopoeial or regulatory grade requirements (e.g., USP/BP/IP/EP) for that use — this document does not certify pharmacopoeial compliance.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been compiled using the product Technical Data Sheet together with published scientific and regulatory literature, to the best of our knowledge, and is provided in good faith, as no independent batch-specific test report was available at the time of preparation. It does not constitute a warranty of any specific property. Given that published sources show some variation in hazard classification for L-Menthol depending on grade, we recommend this document be verified against a manufacturer SDS before it is relied upon for regulatory or shipping purposes. This SDS is subject to revision as new information becomes available.

Date: 26 September, 2026

Authorized Signatory

For Eco Organics


Partner

(Company Seal)