

SAFETY DATA SHEET

Menthol Crystals

(±)-Menthol / l-Menthol / dl-Menthol

CAS: 89-78-1 EC: 201-939-0

SECTION 1 — Identification

Product identifier: Menthol Crystals (solid; white needles/flakes)

Other identifiers: 2-Isopropyl-5-methylcyclohexanol; Hexahydrothymol; (±)-Menthol; l-Menthol

Recommended use: Flavor/fragrance ingredient; laboratory chemical; manufacturing ingredient

Uses advised against: Non-regulatory compliant uses

Supplier:

Chemical Store Inc.

1059 Main Ave., Clifton, NJ 07011

Tel: 973-405-6248

Emergency number: (973) 420-4972

SECTION 2 — Hazard(s) identification

Classification: Skin Irrit. 2 (H315), Eye Irrit. 2A (H319), Aquatic Acute 3 (H402)

Signal word: Warning

Pictograms: Exclamation mark



Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life. Precautionary Statements

Precautionary statements: P338, etc.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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 and wash before reuse.

P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3 — Composition/information on ingredients

Substance: Menthol $\geq 99\%$

CAS 89-78-1 EC 201-939-0 M.W. 156.27 g/mol

SECTION 4 — First-aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses. Get medical advice if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention if unwell.

SECTION 5 — Fire-fighting measures

Suitable media: Dry chemical, CO₂, foam

Specific hazards: Combustible solid. Produces CO/CO₂ on burning.

Protective equipment: SCBA and protective gear required.

SECTION 6 — Accidental release measures

Personal precautions: Avoid dust, ensure adequate ventilation, and wear PPE.

Environmental precautions: Prevent entry into drains/waterways.

Cleanup: Collect mechanically, avoid dust, wash spill area after removal.

SECTION 7 — Handling and storage

Handling: Avoid inhalation, skin and eye contact. Wash thoroughly after handling.

Storage: Store tightly closed, cool, dry, ventilated place away from oxidizers.

SECTION 8 — Exposure controls/personal protection

No OSHA PEL or ACGIH TLV established. Follow nuisance dust limits.

Engineering: Local exhaust if dust generated.

PPE: Safety glasses, nitrile gloves, N95 respirator if dust present, good hygiene practices.

SECTION 9 — Physical and chemical properties

Appearance: White crystalline needles, mint odor

Melting point: 34–36 °C

Boiling point: ~216 °C

Flash point: ~96 °C

Density: 0.89 g/cm³

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Solubility: Slightly soluble in water (~0.456 g/L)

Partition coefficient: log Pow ~3.4

SECTION 10 — Stability and reactivity

Reactivity: Not reactive under normal conditions.

Stability: Stable.

Hazardous reactions: None known.

Conditions to avoid: Heat, flames, sunlight.

Incompatibles: Strong oxidizers.

Decomposition: Carbon oxides.

SECTION 11 — Toxicological information

Routes of exposure: Inhalation, skin, eyes, ingestion.

Acute effects: Irritant to skin/eyes; respiratory irritation possible; ingestion may cause GI upset.

Sensitization: Rare allergic contact dermatitis.

Chronic effects: No specific target organ toxicity known.

Carcinogenicity: Not classified by IARC, NTP, OSHA.

SECTION 12 — Ecological information

Aquatic toxicity: LC50 fish ~22.3 mg/L; EC50 daphnia ~26.6 mg/L; ErC50 algae ~16.2 mg/L.

Persistence/degradability: Readily biodegradable.

Bioaccumulation: Moderate potential (log Pow ~3.4).

SECTION 13 — Disposal considerations

Dispose via licensed waste contractor in accordance with federal, state, local regulations. Avoid release to environment.

SECTION 14 — Transport information

DOT: Not regulated.

IMDG/IATA: Not regulated in typical package sizes.

Check mode-specific regs for large bulk transport.

SECTION 15 — Regulatory information

TSCA: Listed.

EPCRA 311/312: Classified as skin/eye irritant.

No SARA 313 chemicals present.

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SECTION 16 — Other information

Preparation/revision date: October 3, 2025

Version: 1.0

Disclaimer: Provided for guidance only. User responsible for regulatory compliance.