



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
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MENTHOL

1. Product Identification

Synonyms: 5-Methyl-2-(1-methylethyl) cyclohexanol

CAS No.: 2216-51-5

Molecular Weight: 156.27

Chemical Formula: C₁₀H₂₀O

Product Codes: 32153

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Menthol	2216-51-5	100%

3. Hazards Identification

Potential Health Effects

Inhalation: Vapors or dust can be irritating in large amounts due to the phenolic character of the compound. The normal sensation is that of a pleasant odor. May cause allergic reaction in sensitive individuals.

Ingestion: Toxic. General gastrointestinal upset can occur with pain, vomiting, vertigo, drowsiness and coma.

Skin Contact: Mild irritant but may cause pain or inflammation on sensitive areas of the skin.

Eye Contact: Irritant due to its phenolic character. Can cause reddening and tearing.

Chronic Exposure: Repeated exposure may cause symptoms similar to those listed for acute effects.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact : Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not Considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Dry chemical, foam, water or carbon dioxide. Water spray may be used to

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keep fire exposed containers cool.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use nonsparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White crystals.

Odor: Peppermint odor.

Solubility: Slightly soluble in water.

Density: 0.89

pH: No information found.

% Volatiles by volume @ 21C (70F): No information found.

Boiling Point: 212C (414F)

Melting Point: 41 - 43C (106 - 109F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): 0.8 @ 21C (70F)

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers, phenol, chloral hydrate, betanaphthol, pyrogallol, and resorcinol or thymol in titrations.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

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11. Toxicological Information

For Menthol: Oral (rat) LD50: 3300 mg/kg; Skin (rabbit) LD50: > 5 gm/kg.

Investigated as a mutagen.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Menthol (2216-51-5)	No	No	None

12. Ecological Information

Environmental Fate: When released into the soil, this material is not expected to leach into groundwater.

When released into the soil, this material may evaporate to a moderate extent. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Poison Schedule: None allocated.

16. Other Information

Product Use:

Laboratory Reagent.