

Supermint Exports Pvt. Ltd.

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MSDS - Menthol Crystals

1. Chemical Product and Company Identification

Product Name: Menthol Crystals (3-p-Menthanol,1-Methyl-4-isopropyleclohexan-3-ol)

CAS: 2216-51-5, **EINECS:** 218-690-9, **HS CODE:** 290611

Emergency Numbers: +91 595 2357332

2. Components

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Levo-Menthol	2216-51-5	90-100	N/E	N/E

3. Hazards Identification

NFPA Classification: Health = 2 Flammability = 1 Reactivity = 0 Contact = 1

US & International Label Precautionary Statements :

DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC REACTION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

4. Health Hazard Assessment

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. Estimated fatal dose, average human, is 2 g. General gastrointestinal upset can occur with pain, vomiting, vertigo, drowsiness and coma. Death from respiratory failure can result in cases of severe poisoning.

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.

5. 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.

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5. First Aid Measures continued

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.

6. Fire Fighting Measures

Recommended Fire Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Dry chemical, foam, water or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved self-contained breathing apparatus with full face piece operated in positive pressure mode..

Unusual Fire or Explosion Hazards: None identified

Toxic Gases Produced: Carbon Monoxide, Carbon Dioxide

Explosion Data-Sensitivity to Mechanical Impact: None identified

Explosion Data-Sensitivity to Static Discharge: None identified

7. Accidental Release Measures

Steps to be taken in case material is released or spilled: Wear suitable protective clothing. Carefully sweep up and remove.

Disposal Procedure: Dispose of in accordance with are Federal, State and Local Regulations.

8. Handling and Storage

Storage Color Code: Orange (general storage)

Storage Requirements: 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.

9. 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 dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

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.

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10. Physical and Chemical Properties

Appearance:	White Crystals
Odor:	Peppermint Odor
Odor Threshold (ppm):	NA
Solubility in Water:	Slight (0.1-1%)
Specific Gravity:	0.89
pH:	NA
Boiling Point:	212°C (413°F)
Melting Point:	42°C (107°F)
Vapor Density:	NA
Vapor Pressure (mm Hg):	NA
Evaporation Rate:	NA
Physical State:	Solid
Flash Point (CC):	93°C
Auto-ignition Temperature:	NA
Flammable Limits:	Upper: NA Lower: NA

11. Stability and Reactivity

Stability:	Normally stable
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:	Will not occur.
Materials to Avoid:	Strong oxidizers, phenol, chloral hydrate, betanaphthol, pyrogallol, and resorcinol or thymol in titrations.
Conditions to Avoid:	Heat, flames, ignition sources and incompatibles.

12. Disposal Considerations

Waste Disposal Method: Sanitary landfill in accordance with applicable laws and regulations.

13. Toxicological Information

For levo-Menthol: Oral (rat) LD50: 3300 mg/kg; Skin (rabbit) LD50: > 5 gm/kg. Investigated as a mutagen.

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

14. 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.

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15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                               TSCA  EC   Japan  Australia
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levo-Menthol (2216-51-5)                 Yes   Yes  Yes    Yes
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-----\Chemical Inventory Status - Part 2\-----
Ingredient                               Korea  --Canada--
                               DSL   NDSL  Phil.
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levo-Menthol (2216-51-5)                 No    Yes   No     Yes
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-----\Federal, State & International Regulations - Part 1\-----
Ingredient                               -SARA 302-  -SARA 313-
                               RQ   TPQ   List  Chemical Catg.
-----
levo-Menthol (2216-51-5)                 No    No    No     No
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-----\Federal, State & International Regulations - Part 2\-----
Ingredient                               CERCLA  -RCRA-  -TSCA-
                               261.33  8(d)
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levo-Menthol (2216-51-5)                 No      No      No
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Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Transport Information

Road (U.S. DOT): Not regulated
Air (IATA): Not regulated
Sea (IMDG): Not regulated