

# Lotioncrafter

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## Menthol Crystals (L-) USP

**INCI: Menthol**

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### 1. Chemical Product and Company Identification

**Product Name:** Menthol Crystals (L-) (natural) USP

**CASRN:** 2216-51-5

**Emergency Numbers:** Chemtrec 800-424-9300

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### 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

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### 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.**

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### 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.

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### 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.

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## 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

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## 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.

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## 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.

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## 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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**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

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

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## 11. Stability and Reactivity

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

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## 12. Disposal Considerations

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

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## 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

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## 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

-----\Chemical Inventory Status - Part 1\-----  
Ingredient TSCA EC Japan Australia  
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levo-Menthol (2216-51-5) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----  
Ingredient Korea DSL NDSL Phil. --Canada--  
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levo-Menthol (2216-51-5) No Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----  
Ingredient -SARA 302- TPQ -SARA 313-  
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levo-Menthol (2216-51-5) No No No No  
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RQ List Chemical Catg.

-----\Federal, State & International Regulations - Part 2\-----  
Ingredient CERCLA -RCRA- -TSCA-  
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levo-Menthol (2216-51-5) No No No  
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261.33 8 (d)

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

## 17. Other Information

**NFPA Ratings:** Health: 2 Flammability: 1 Reactivity: 0

### Label Hazard Warning:

DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC REACTION.

### Label Precautions:

Avoid breathing dust.  
Avoid breathing vapor.  
Avoid contact with eyes, skin and clothing.  
Keep container closed.  
Use only with adequate ventilation.  
Wash thoroughly after handling.

### Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In all cases, get medical attention.

**Disclaimer:**

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