

Safety Data Sheet – L-Menthol

(Complies with OSHA HCS-2012: 29 CFR 1910.1200)

1. Product and Company Identification

Product Name	L-Menthol
Other Product Name(s)	(-)-Menthol, (1R,2S,5R)-(-)-Menthol, (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol, 5-Methyl-2-(1-methylethyl)cyclohexanol
Product Use	For use in flavors and fragrances only.
Manufacturer	Swati Menthol & Allied Chemicals, Ltd. Bareilly Road, P.O; Modipur, Rampur, India Phone: 91-595-2357042 (to 45, 4 lines) Fax: 91-595-2357046 Email: info@swatimenthol.com
Supplier	R.E. Carroll, Inc. 1570 North Olden Avenue Trenton, NJ 08638-3204 USA Phone: (800)-257-9365 (609)-695-6211 Fax: (609)-695-0102 SDS Contact: John Boruta Email: johnb@reccarroll.com
Emergency Telephone Number	CHEMTREC: 800-424-9300

2. Hazards Identification

Emergency Overview: Colorless crystals with a peppermint odor. Can irritate skin and eyes.

OSHA Regulatory Status	Hazardous
OSHA Classification	Skin corrosion/irritation: 2 Serious eye damage/irritation 2B
WHMIS Regulatory Status	Hazardous (WHMIS 2015)
WHMIS Classification	Skin corrosion/irritation: 2 Serious eye damage/irritation 2B
Signal Word	WARNING
Hazard Statements	Causes skin irritation. Causes eye irritation.
Precautionary Statements	Wash skin thoroughly after handling. Wear eye protection/ face protection. Wear protective gloves. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Dispose of in accordance with Federal and local regulations.
Label Symbols	
Other Hazards Not Specified by OSHA	None
% of Unknown Toxicity	None

Potential Health Effects:

Skin	Can cause irritation
Eyes	Can cause irritation.
Ingestions	Not highly toxic but may cause upset to digestive tract.
Inhalation	Mists and vapors may be slightly irritating.

Chronic Effects	None
Environmental Effects	Not anticipated to be hazardous to the environment.

3. Composition / Information on Ingredients

Ingredient	CAS #	Wt. %*
L-menthol	2216-51-5	100

4. First Aid Measures

Skin	Wash with soap and water. Get medical attention if irritation persists.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
Ingestions	If you feel unwell contact a doctor or poison control center.
Inhalation	Remove to fresh air.
Advice to Physician	Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media:	Use dry chemical, foam, carbon dioxide or water spray. Avoid solid stream of water.
Fire/Explosion Hazards:	Nothing a significance beyond normal hazards.
Fire Fighting Procedures:	Avoid contact with skin and eyes. Wear self-contained, positive pressure breathing apparatus.
Flammable Limits:	Not determined
Flash Point	201 °F (94 °C)
Auto ignition Temperature:	Not determined
Hazardous Combustion Products:	Carbon monoxide and carbon dioxide,

6. Accidental Release Measures

Personal Precautions:	Wear personal protective equipment. (See section 8). Do not breathe product mists or vapors and avoid direct contact. Ventilate area and remove sources of ignition.
Containment:	Use clay or other impervious materials to surround large spills.
Clean Up:	Vacuum up and place into container for disposal. Material can also absorbed with liquid binding materials such as kitty litter. Absorbent then needs to be disposed of.
Notification Requirements:	Not required.

7. Handling and Storage

Handling:	Avoid contact with material. Do not eat or smoke before washing thoroughly
Storage:	Store in a cool dry place and keep containers closed. Keep containers tightly closed and store below 95 °F (35 °C) to protect product quality.

8. Exposure Controls / Personal Protection

Engineering Controls:	Local ventilation sufficient to avoid escape of vapors.
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Personal Protective Equipment:

Eyes and Face:	Wear safety glasses or goggles to avoid accidental eye contact.
Respiratory:	Not normally required for adequately ventilated work areas.
Hands, Arms, and Body:	Use work gloves made of nitrile rubber 0.4 mm thick. Wear normal work clothing. Long sleeved shirts are recommended. Add rubber apron when transferring liquid between containers.
Other	Eyewash or source of running water in case of accidently exposure.

Exposure Guidelines:

Ingredient	ACGIH TLW	ACGIH STEL	OSHA PEL	OSHA STEL
No ingredients with established exposure guidelines	---	---	---	---

9. Physical and Chemical Properties

Appearance & Physical State	Colorless crystals
Odor:	Peppermint odor
Odor Threshold:	Not determined
pH	Not determined
Specific Gravity (Relative density):	0.89 @ 20 °C
Initial Boiling Point & Range:	Boils at 420 °F (216 °C)
Melting Point /Freezing Point:	104.0 – 111.4 °F (40 – 44 °C)
Evaporation Rate:	Not determined
Percent Volatile:	100 %
Solubility in Water	Practically insoluble
Vapor Density:	5.38 vs. air
Vapor Pressure:	< 1 mmHg at 20 °C (68 °F)
Upper/ Lower Flammable Limits:	Not determined
Flash Point	201 °F (94 °C)
Auto ignition Temperature:	Not determined
Flammability (solid, gas)	Not determined
Octanol/water partition coefficient	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable

10. Stability and Reactivity

Stability:	Stable at normal handling conditions
Conditions to Avoid:	High temperatures and prolonged exposure to air.
Materials to avoid	May react with strong oxidizers.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products	Not determined but may include oxides of carbon and organic compounds.

11. Toxicological Information

Eye:	Can cause irritation.
Skin:	Can cause irritation. LD ₅₀ (rabbit) >5000 mg/kg..
Oral:	May cause upset stomach. LD ₅₀ (rat) is 3300 mg/kg
Inhalation:	Slightly irritating.
Chronic:	None

Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
None listed	---	---	---

12. Ecological Information

Acute ecotoxicity:	Freshwater fish: 18.9 mg/L LC50 96 h Daphnia: 26.6 mg/L 48h
Chronic ecotoxicity	Not determined
Other information	Not determined

13. Disposal Considerations

RCRA Status	Not a hazardous waste
Disposal Method:	Dispose of in accordance with Federal, State and Local regulations.

14. Transportation Considerations

DOT Proper Shipping Name:	Not regulated
DOT Primary Hazard Class	Not applicable
DOT UN / NA Number:	Not applicable
DOT Packing Group	Not applicable
TDG (Canada)	Not regulated
IMDG (International water)	Not regulated
ICAO (Air transport)	Not regulated

15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	On inventory
Other TSCA Issues:	None

SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

Ingredient	SARA/CERCLA RQ (lb.)	SARA EHS TPQ (lb.)
None listed	---	---

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class:	Immediate
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SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Ingredient	Comment
None listed	----

State Right-To-Know

May be in addition to the ingredients found in Section 2, (Includes CA Proposition 65 listings)

Ingredient	Weight %	Comment
None listed	---	----

Additional Regulatory Information:	On chemical inventories or exempt in the following: Australia, Canada, China, EU, Japan, Korea, Mexico, New Zealand, Philippians, Taiwan.
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16. Other Information

- Keep out of the reach of children.

Issue Date:	March 22, 2016
Previous Issue Date:	New SDS
Changes from previous version:	General revision to reflect change in ownership and review of entire SDS for accuracy and compliance with HCS 2012.

National Fire Protection Assoc. (NFPA) Classification:

4 = Severe; 3 = Serious; 2 = Moderate; 1 = Slight, 0 = Minimal
 1 Health 1 Flammability 0 Reactivity

Hazardous Materials Information Systems (HMIS):

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant
 1 Health 1 Flammability 0 Physical Hazard

The opinions expressed herein are those of qualified experts within R.E. Carroll, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of R.E. Carroll, Inc., it is the user's obligation to determine the conditions of safe use of the products.