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SAFETY DATA SHEET

L - MENTHOL

1 Identification of the substance/preparation and of the company/undertaking

· **Product details:**

· **Trade name:** Menthol Molten/Menthol Crystals (L-Menthol)

· **REACH registration no. :** 01-2119458866-21-0018

· **Application of the substance / the preparation:** Flavor & Fragrance

· **Manufacturer/Supplier:**

Swati Menthol & Allied Chemicals Ltd.

Opp. Akashwani, P.O.Modipur,

Bareilly Road, Rampur (U.P.) 244 901

Telephone No: +91-595-2357042, 2357043, 2357044, 2357045

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· **Further information obtainable from:** Department Health, Safety and Environment

· **Information in case of emergency:** Swati Menthol & Allied Chemicals Ltd.,

Telephone No: +91-595-2357042, 2357043, 2357044, 2357045

2 Hazards identification

· **Classification according to Regulation (EC) No 1272/2008**

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16

· **Labelling according Regulation (EC) No 1272/2008**

Pictogram



Warning

· Hazards statements

H315: Causes skin irritation

H319: Causes serious eye irritation

· Precautionary statements:

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

· Supplemental hazard statements:

None

3 Composition/information on ingredients:

· Chemical characterization:

· Formula:

$C_{10}H_{20}O$

· Molecular weight:

156.27 g/mol

· CAS No.:

2216-51-5 L- Menthol

· Identification number(s)

· EC Number:

218-690-9

4 First-aid measures

· General information:

Consult a physician. Show this safety data sheet to the doctor in attendance.

· After inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

· After skin contact:

Wash off with soap and plenty of water.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for 15 minutes under running water. If symptoms persist consult a doctor.

· After swallowing:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 Fire-fighting measures

- **Suitable extinguishing agents:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

For safety reasons, unsuitable extinguishing agents: Do not use water jet.

- **Special hazards arising from the substance or mixture:**

Carbon oxides.

- **Advice for firefighters:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:**

Prevent fire-fighting water from entering surface water or groundwater.

6 Accidental release measures

- **Person-related safety precautions:**

Use personal protective equipment.

Do not breathe vapor/spray.

Avoid contact with the eyes and skin.

Wear protective clothing.

Ensure adequate ventilation.

- **Measures for environmental protection:**

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

Discharge into the environment must be avoided.

- **Measures for cleaning/collecting:**

If spilled in liquid state, absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).

If spilled in solid state, use appropriate tools to collect in an appropriate waste disposal container.

Finish cleaning by spreading water on the contaminated surface and dispose of the material collected as per local laws and regulations.

7 Handling and storage

- **Information for safe handling:**

Avoid contact with skin and eyes.

Avoid formation of dust and aerosols.

- **Information about fire - and explosion protection:**

No special measures required

- **Storage:**

Store in the original receptacles.

Do not expose to temperatures above 30° C.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **General protective and hygienic measures:**
 - Do not eat, drink or sniff while working.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with eyes and skin.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - Use suitable respiratory protective device only when aerosol or mist is formed.
 - Required when vapors/aerosols are generated.

· **Personal protective equipment:**

-Protection of hands:



Protective gloves

- **Material of gloves**
 - Nitrile, thickness: 0.11 mm
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Boiling Point 760 mmHg.	: 216°C
Vapor Pressure	: 0.8 mmHg @ 20°C
Solubility in water	: Practically Insoluble
Appearance	: Colorless hexagonal crystals
Odor	: Fresh Pungent Peppermint
Specific Gravity (Water = 1)	: 0.8900 @ 20°C
Percent Volatiles by volume	: 100%
Evaporation rate (Butyl Acetate = 1)	: N.A.
Melting Point	: 40-44 °C
Flash Point	: 93°C closed cup
Physical State	: Solid

10 Stability and reactivity

- **Reactivity:** No information available.
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** No information available.
- **Conditions to avoid:** No information available.
- **Dangerous decomposition products:** Carbon Monoxide and Carbon Di-Oxide

11 Toxicological information

- **Acute toxicity:**
LD/LC50 values relevant for classification:
 - LD50 Oral - Cat - 800 mg/kg(L-Menthol)
 - LD50 Dermal - Rabbit - > 5,000 mg/kg(L-Menthol)
 - LD50 Intraperitoneal - Rat - 700 mg/kg(L-Menthol)
 - LD50 Intraperitoneal - Mouse - 6,600 mg/kg(L-Menthol)
 - LD50 Intraperitoneal - Cat - 800 mg/kg(L-Menthol)
 - LD50 Subcutaneous - Rat - 1,000 mg/kg(L-Menthol)
 - LD50 Subcutaneous - Mouse - 5,000 mg/kg(L-Menthol)

. Skin corrosion/irritation

Skin - Rabbit(L-Menthol)

Result: Moderate skin irritation

. Serious eye damage/eye irritation

Eyes - Rabbit(L-Menthol)

Result: Moderate eye irritation

. Respiratory or skin sensitization

No data available (L-Menthol)

. Germ cell mutagenicity

No data available (L-Menthol)

. Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

. Reproductive toxicity

No data available (L-Menthol)

. Specific target organ toxicity - single exposure

No data available (L-Menthol)

. Specific target organ toxicity - repeated exposure

No data available (L-Menthol)

. Aspiration hazard

No data available (L-Menthol)

. Further information: The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

. Toxicity

Toxicity to fish: LC50 - Brachydanio rerio (zebrafish) - 15.6 mg/l - 96 h(L-Menthol)

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 26.6 mg/l - 48 h (L-Menthol) (Tested according to Directive 92/69/EEC.)

Toxicity to algae ErC50 - Desmodesmus subspicatus (green algae) - 21.4 mg/l - 72 h(L-Menthol) (Tested according to Directive 92/69/EEC.)

Toxicity to bacteria EC50 - activated sludge - 237 mg/l (L-Menthol) (OECD Test Guideline 209)

. Persistence and degradability

Biodegradability Result: 92 % - Readily biodegradable (OECD Test Guideline 301D)

. Bioaccumulative potential

Indication of bioaccumulation.

. Mobility in soil

No information available (L-Menthol)

. Other adverse effects

Harmful to aquatic life.

13 Disposal considerations

. **Product:**

. **Recommendation**

The disposal is regionally differently regulated; therefore the kind of disposal is to be inquired at the responsible authorities.

This material and its container must be disposed of as hazardous waste.

. **Un-cleaned packaging:**

. **Recommendation:** Disposal according to official regulations.

14 Transport information

. **DOT Classification:** Not a DOT controlled material (United States).

. **Identification:** Not applicable.

. **Shipping Name:** Not regulated as a hazardous material.

. **Special Provisions for Transport:** Not applicable.

15 Regulatory information

. **Safety health & environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

. **Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

. **Water hazard class**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

. Hazard Material Identification System (HMIS):

Fire : 2 Health : 2 Reactivity : 0 Personal protection : E

. **Department issuing MSDS:** Department: Health, Safety and Environment

. **Contact Person:** T.L. Arora

. Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent.