



SAFETY DATA SHEET (SDS)

(As per Regulation (EU) No. 1907/2006)

Doc Code	Version No.	Revision Date	Review Date
NPPL/QA/SDS-01	02	16/02/2021	15/02/2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	L-Menthol (Crystals), Natural
Chemical name	(1R,2S,5R)-5-Methyl-2-(1-methylethyl) cyclohexanol
Chemical Formula	C ₁₀ H ₂₀ O
Molecular Weight	156.27
CAS Number	2216-51-5
EC Number	218-690-90
FEMA Number	2665
Reach Registration Number	01-2119458866-21-0055

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Laboratory Chemicals, Manufacture of substances
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1.3 Details of the supplier of the safety data sheet

Company	N.S Mint Products Pvt Ltd Near 2 km stone, Moradabad Road Sambhal – 244302 Uttar Pradesh, India
Email	sales@nsmint.com

1.4 Emergency telephone number: +91-5923-230244 / 45

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Skin Corrosion/ Irritation	(Category 2), H315
Serious Eye Damage/ Eye Irritation	(Category 2), H319

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

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard Pictogram



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary Statements

P264 – Wash hands thoroughly after handling.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P314 – Get medical advice/attention if you feel unwell.

P362 – Take off contaminated clothing and wash before reuse.

2.3 Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This product does not contain any known or suspected endocrine disruptors.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	CAS Number	EC Number	Content
L-Menthol	2216-51-5	218-690-90	Min 99%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice

Consult a physician. Show this Safety Data Sheet to the doctor in attendance.

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a doctor.
Skin Contact	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention.
Ingestion	Rinse mouth out with water. If you feel unwell, seek medical advice.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If not breathing, give artificial respiration.

4.2 Most Important symptoms and effects, both acute and delayed

Severe Eye Irritation – Symptoms may include stinging, burning, redness, swelling and blurred vision.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	Carbon dioxide (CO ₂), dry chemical or alcohol-resistant foam
Unsuitable Extinguishing Media	Do not use a heavy water stream

5.2 Special hazards arising from the substance

Thermal decomposition can lead to the release of irritating gases and vapours.

Hazardous Combustion Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
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5.3 Advice for firefighters

Wear self-contained breathing apparatus and suitable protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust, vapours or gas. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. Observe emergency procedures.

For personal protection, refer to Section 8.

6.2 Environmental precautions

Prevent further leakage if it is safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal, refer to Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid dispersion of dust. Avoid ingestion and inhalation. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry, cool and ventilated area, away from potential sources of ignition and protected from light.

7.3 Specific end uses

Refer to Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

This substance has no PEL, TLV, or other recommended exposure limit.

8.2 Exposure Controls

Appropriate engineering controls

The areas where the product is handled and stored should be adequately ventilated.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Form – Crystalline Colour – Colourless to White
Odour	Pleasant and characteristic
Specific Optical Rotation (20°C)	-45° to -51°
Melting Point	About 43°C
Boiling Point	212°C @ 760 mmHg
Flash Point	94°C
Vapour Pressure	0.8 mmHg @ 20 °C

9.2 Other Safety Information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Avoid temperatures exceeding the flash point and contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide (CO) and other unidentified organic compounds may be formed upon combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50 Oral – Rat	3300 mg/kg (FAO Nutrition Meetings Report Series. Vol. 44A, Pg. 58, 1967.)
LD50 Oral – Mouse	3,400 mg/kg (Quarterly Journal of Pharmacy & Pharmacology. Vol. 5, Pg. 233, 1932.)
LD50 Dermal – Rabbit	> 5,000 mg/kg (Ref.: TOXNET)
LD50 Intraperitoneal - Rat	700 mg/kg (Ref.: Journal of Pharmacy and Pharmacology. Vol. 35, Pg. 110, 1983.)
LD50 Intraperitoneal - Mouse	6,600 mg/kg (Ref.: Farmatsevtichnii Zhurnal Vol. 17(3), Pg. 53, 1962.)
LD50 Intraperitoneal - Cat	800 mg/kg (Ref.: FAO Nutrition Meetings Report Series. Vol. 44A, Pg. 58, 1967.)
LD50 Subcutaneous - Rat	1,000 mg/kg (Ref.: FAO Nutrition Meetings Report Series. Vol. 44A, Pg. 58, 1967.)
LD50 Subcutaneous - Mouse	5,000 mg/kg (Ref.: FAO Nutrition Meetings Report Series. Vol. 44A, Pg. 58, 1967.)
LC50 Inhalation	No data available

Skin Corrosion/Irritation

Causes skin irritation

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitization

Repeated or prolonged exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity

No data available

Carcinogenicity

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

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Information on other toxicological effects

Endocrine disrupting properties

Does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Aquatic	Concentration	Species	Test Results
Algae	EC50	Green algae (Desmodesmus subspicatus)	21.4 mg/l, 72 hours
Algae	NOEC	Green algae (Desmodesmus subspicatus)	9.65 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	26.6 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	15.6 mg/l, 96 hours
Fish	LC50	Pimephales promelas (fathead minnow)	18.9 mg/l, 96 hours
Other	EC50	Activated Sludge	237 mg/l, 3 hours

12.2 Persistence and degradability

Biodegradability

Readily biodegradable

Persistence

Persistence is unlikely.

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

Component	Log Kow	Bioconcentration Factor (BCF)
L-Menthol	3.3	15

12.4 Mobility in soil

The product is insoluble and floats on water. The product evaporates slowly. Is not likely mobile in the environment due its low water solubility. Spillage is unlikely to penetrate soil.

12.5 Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

12.7 Other adverse effects

Do not allow the material to enter streams, sewers or other waterways. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Container disposal:

Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralize. Empty residue into a suitable disposal site.

Disposal conditions:

Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

14.1 UN Number

ADR/RID/ADN – Not regulated, IMDG – Not regulated, IATA – Not regulated
Not classified as hazardous good.

14.2 UN proper shipping name

ADR/RID/ADN – Not regulated, IMDG – Not regulated, IATA – Not regulated

14.3 Transport hazard class(es)

ADR/RID/ADN – Not regulated, IMDG – Not regulated, IATA – Not regulated

14.4 Packing group

ADR/RID/ADN – Not regulated, IMDG – Not regulated, IATA – Not regulated

14.5 Environmental hazards

Dangerous for the environment No
Marine pollutant No
Other Information No supplementary information available

14.6 Special Precautions for users

No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance

International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS, ISHL), Australia (AICS), Korea (ECL).

EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	IECSC	ENCS	ISHL	AICS	ECL
218-690-9	-	-	X	X	-	X	X	X	X	X	X

EU Regulations: Labelling according to Regulation (EC) No 1272/2008.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been conducted.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H315 Causes skin irritation

H319 Causes serious eye irritation

Relevant changes since previous version

1. Format
2. Section 15 Regulatory Information – Inventory Status has been added

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006.

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief on the date of its publication but does not purport to be all inclusive. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. N S Mint Products Pvt Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. It is the duty of the user to ensure that our product is suitable for the purposes intended.

END OF SAFETY DATA SHEET

