MATERIAL SAFETY DATA SHEET

Menthol Crystals

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

Product details:

Trade name: Menthol Crystals / Menthol Molten / Menthol Powder (L-Menthol)

Application of the substance / the preparation: Flavor & Fragrance

Manufacturer/Supplier:

Cosmo Chemistry India Pvt. Ltd.

Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka,

Varachha Main Road, Surat, Gujarat – 395006, India

Telephone No: +91 7984584838

E-mail: info@cosmochemistryindia.com

Further information obtainable from:

Department: Health, Safety and Environment

Information in case of emergency:

Cosmo Chemistry India Pvt. Ltd., Telephone No: +91 7984584838

2. Hazards identification

Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation (Category 2), H315

Serious eye irritation (Category 2), H319

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

Labelling according to Regulation (EC) No 1272/2008

Pictogram: Warning

Hazard statements

H315: Causes skin irritation

H319: Causes serious eye irritation

Precautionary statements:

P280: Wear protective gloves/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of 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.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

Supplemental hazard statements:

None

3. Composition/information on ingredients

Chemical characterization:

Parameter	Value
Formula	C10H20O
Molecular weight	156.27 g/mol
CAS No.	2216-51-5 (L-Menthol)
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. Consult a physician.

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:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Carbon oxides.

Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

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 vapors, mist or gas. 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:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of in accordance with current laws and regulations.

7. Handling and storage

Information for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Do not expose to temperature above 30°C.

Information about storage in one common storage facility:

Store away from foodstuffs.

8. Exposure controls/personal protection

Control parameters:

Ingredients with workplace control parameters.

Exposure controls:

Appropriate engineering controls. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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.

Personal protective equipment:

Eye/face protection: Safety glasses with side-shields conforming to EN166. 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Contact Type	Material	Min. Layer Thickness	Break Through Time
Full contact	Nitrile rubber	0.11 mm	480 min
Splash contact	Nitrile rubber	0.11 mm	480 min

Body Protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

Property	Value
Initial boiling point (1013 hPa)	212°C
Appearance	Colorless hexagonal crystals
Odor	Characteristic
Relative density	0.8900 @ 20°C
Specific optical rotation	-45° to -51°
Melting range	41-44°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:

It does not undergo any dangerous reactions under normal conditions.

Conditions to avoid:

Heat, flames and other sources of ignition.

Dangerous decomposition products:

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

11. Toxicological information

Acute toxicity

No data available.

LC50 Inhalation - Rat - male and female - 4 h - 5.289 mg/l (OECD Test Guideline 403)

Skin corrosion/irritation

Skin - Rabbit. Result: irritating - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit. Result: irritating (OECD Test Guideline 405)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse. Result: negative (OECD Test Guideline 429)

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No ingredient 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.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Further information:

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

12. Ecological information

Toxicity

Test	Species	Result	Duration
Toxicity to fish (static test)	Danio rerio (zebra fish)	LC50 15.6 mg/l	96 h
Toxicity to daphnia	Daphnia magna (water flea)	EC50 26.6 mg/l (OECD 202)	48 h
Toxicity to algae	Desmodesmus subspicatus (green algae)	ErC50 21.4 mg/l (OECD 201)	72 h
Toxicity to bacteria	Activated sludge	EC50 237 mg/l (OECD 209)	3 h

Persistence and degradability

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

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

Harmful to aquatic life.

13. Disposal considerations

Product:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with national and local regulations.

Leave chemicals in original containers. No mixing with other waste. Handle un-cleaned containers like the product itself.

Contaminated packing:

Dispose of as unused product.

14. Transport information

	ADR/RID	IMDG	IATA
UN number	-	-	-
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	-	-	-
Packaging group	-	-	-
Environmental hazards	no	no (Marine pollutant)	no

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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 SDS:

Department: Health, Safety and Environment

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

15. Regulatory information

Safety, health & environmental regulations/legislation specific for the substance or mixture:

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

Chemical safety assessment:

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

This is a computer generated document. No stamp or signature is required.