

Safety Data Sheet

#36659000 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
L-Menthol	2216-51-5	C10H20O	10	18 Aug 2026

SECTION 1

Identification

Product name	L-Menthol
CAS number	2216-51-5
Chemical formula	C10H20O
Molecular weight	156.27
SMILES	<chem>C[C@@H]1CC[C@H]([C@@H](C1)O)C(C)C</chem>
EC / EINECS number	<i>Not applicable</i>
Recommended use & restrictions	<i>Not applicable</i>
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life
CODE	PRECAUTIONARY STATEMENT
P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
P362	Take off contaminated clothing and wash before reuse
Other hazards (e.g. PBT / vPvB, not classified)	Not applicable

SECTION 3

Composition / information on ingredients

Purity / concentration	Not applicable
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

Inhalation	Not applicable
Skin contact	Not applicable
Eye contact	Not applicable
Ingestion	Not applicable
Symptoms / effects & medical attention	Not applicable

SECTION 5

Fire-fighting measures

Suitable extinguishing media *Not applicable*

Unsuitable extinguishing media *Not applicable*

Special hazards *Not applicable*

Advice for firefighters *Not applicable*

SECTION 6

Accidental release measures

Personal precautions & PPE *Not applicable*

Environmental precautions *Not applicable*

Containment & clean-up methods *Not applicable*

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature Ambient

Precautions for safe handling Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.
Wash contaminated skin thoroughly after handling.
Do not eat, drink or smoke when using this product. Remove contaminated clothing and laundry thoroughly before re-use. Wear protective clothing, gloves, eye and face protection.
Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

Conditions for safe storage (incompatibilities) Store in a dry place. Store in a closed container.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Gloves: Nitrile Rubber, 0.11mm (480 mins).

Respiratory protection Not required
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL) 0.89 g/mL
DERIVED FROM: LITERATURE

Flash point 94 °C
DERIVED FROM: LITERATURE

Acidity Neutral
DERIVED FROM: LITERATURE

Appearance / physical state Solid
DERIVED FROM: LITERATURE

Colour *Not applicable*

Odour *Not applicable*

Melting / freezing point *Not applicable*

Boiling point 212-219°C
DERIVED FROM: LITERATURE

Solubility (water) *Not applicable*

pH *Not applicable*

Vapour pressure *Not applicable*

Partition coefficient (log Pow) *Not applicable*

Auto-ignition / decomposition temp *Not applicable*

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed
Conditions to avoid	Sunlight, heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	Strong oxidisers, ignition sources, direct sunlight, heat sources
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Information on hazard classes as defined in Regulation (EC) No 1272/2008 LC50 Inhalation - Rat - male and female - 4 h - 5,289 mg/l - aerosol. LD50 Oral - Rat- 2602 mg/kg LD50 Dermal - Rabbit - >5000 mg/kg
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	Causes serious eye irritation
Respiratory / skin sensitisation	Not classified.
Carcinogenicity	Not classified
Mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT (single / repeated exposure)	Not classified
Aspiration hazard	Not classified
Endocrine disruptors	Not classified

SECTION 12

Ecological information**Aquatic toxicity**

Information on hazard classes as defined in Regulation (EC) No 1272/2008
static test LC50 - Danio rerio (zebra fish) - 15.6 mg/l - 96 h Ref: External SDS
static test EC50 - Daphnia magna (Water flea) - 26.6 mg/l - 48 h Ref: External SDS
static test ErC50 - Desmodesmus subspicatus (green algae) - 21.4 mg/l - 72 h Ref: External SDS
static test EC50 - activated sludge - 237 mg/l - 3 h Ref: External SDS

Persistence & degradability

aerobic - Exposure time 28 d Result: 92 % - Readily biodegradable Ref: External SDS

Bioaccumulative potential

Log Pow: 3.25. No data available.

Mobility in soil

Not applicable

PBT / vPvB assessment

Not applicable

SECTION 13

Disposal considerations**Waste treatment / disposal methods**

Dispose of in accordance with local regulations (sweep/spoil into containers for disposal)

SECTION 14

Transport information**UN number**

Not applicable

Proper shipping name

Not applicable

Class

Not applicable

Packing group

Not applicable

Transport category

Not applicable

Tunnel code

Not applicable

Packing instruction (ADR)

Not applicable

Packing instruction (IMDG)

Not applicable

Environmental hazards

Not applicable

Special precautions for user

Not applicable

SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	<i>Not applicable</i>

SECTION 16

Other information

Revision notes / other information	Previous version published 4/2/2019. According to REACH etc. (Amendment etc.) (EU Exit) Regulations 202 No. 1577. Hazard classification and labelling according to Regulation (EC) 1272/2008 All eye/face protection should comply with EN ISO 16321-1:2022 Respiratory equipment: Reusable air-purifying respirator (APR) Filter Type: ABEK Standard: EN 14387 National Regulations: -Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances Other regulations, limitations and legal regulations: -Directive 94/33/EC- The protection of young people at work
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