## Chemical Safety Data Sheet MSDS / SDS

## L-MENTHONE

Revision Date: 2025-05-03 Revision Number: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

 Product name
 : L-MENTHONE

 CBnumber
 : CB3449673

 CAS
 : 14073-97-3

 EINECS Number
 : 237-926-1

Synonyms: I-menthone,p-Menthan-3-one

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

## **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 400-158-6606

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)

❖

Signal word Warning

## Precautionary statements

P403+P235 Store in a well-ventilated place. Keep cool.

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

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

Continuerinsing.

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

#### Hazard statements

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H315 Causes skin irritation

H227 Combustible liquid

## SECTION 3: Composition/information on ingredients

### **Substance**

Product name : L-MENTHONE

Synonyms: I-menthone,p-Menthan-3-one

CAS : 14073-97-3 EC number : 237-926-1 MF : C10H18O MW : 154.25

## SECTION 4: First aid measures

## Description of first aid measures

#### General advice

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

#### If inhaled

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

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

## **Extinguishing media**

## Suitable extinguishing media

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

## Unsuitable extinguishing media

Do NOT use water jet.

## Special hazards arising from the substance or mixture

Carbon oxides

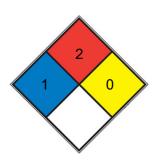
## Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

### **NFPA 704**



HEALTH 1 Exposure would cause irritation with only minor residual injury (e.g. acetone, sodium bromate, potassium chloride)

2 divided suspended solids that do not require heating before ignition can occur. Flash point between 37.8 and 93.3 °C (100 and 200 °F). (e.g. diesel fuel, sulfur)

Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur and multiple finely

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)

SPEC.

FIRE

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

### **Environmental precautions**

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

## Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

## Precautions for safe handling

### Advice on safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### Hygiene measures

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

For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

## control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

### **Exposure controls**

#### 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 Regulation (EU) 2016/425 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

Control of environmental exposure

## SECTION 9: Physical and chemical properties

## Information on basic physicochemical properties

| Appearance                              | colorless clear, liquid  |
|---|--|
| Odour                                   | characteristic   |
| Odour Threshold                         | No data available  |
| рН                                      | No data available  |
| Melting point/freezing point            | Melting point/range:< -20 °C at 1.013 hPa - Regulation (EC) No. 440/2008, Annex, A.1           |
| Initial boiling point and boiling range | 207 - 210 °C - lit.  |
| Flash point                             | 74 °C - Regulation (EC) No. 440/2008, Annex, A.9   |
| Evaporation rate                        | No data available  |
| Flammability (solid, gas)               | No data available  |
| Upper/lower flammability or explosive   | No data available  |
| limits                                  |  |
| Vapour pressure                         | 0,8 hPa at 25 °C - OECD Test Guideline 104   |
| Vapour density                          | No data available  |
| Relative density                        | 0,8945 at 20 °C - OECD Test Guideline 109  |
| Water solubility                        | 0,531 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6- partly soluble                  |
| Partition coefficient: n-octanol/water  | log Pow: 3,05 at 25 °C - OECD Test Guideline 117 - Bioaccumulation is not expected.            |
| Autoignition temperature                | 390 °C at 1.008 - 1.012 hPa  |
| Decomposition temperature               | No data available  |
| Viscosity                               | Viscosity, kinematic: 1,9 mm2/s at 40 °C - OECD Test Guideline 114 Viscosity, dynamic: No data |
|   | available  |
| Explosive properties                    | No data available  |
| Oxidizing properties                    | No data available  |
|   |  |

## Other safety information

No data available

## SECTION 10: Stability and reactivity

## Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks.

## Incompatible materials

Strong oxidizing agents, Strong reducing agents

## Hazardous decomposition products

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## Information on toxicological effects

### **Acute toxicity**

No data available

#### Skin corrosion/irritation

Skin - In vitro study

Result: Irritating to skin. - 15 min (OECD Test Guideline 439) Remarks:

(in analogy to similar products)

The value is given in analogy to the following substances: isomenthone

## Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitization

(OECD Test Guideline 429)

## Germ cell mutagenicity

Ames test

Escherichia coli/Salmonella typhimurium Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster lung cells Result: negative

OECD Test Guideline 474

Mouse - male and female - Bone marrow Result: negative

## 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

## **SECTION 12: Ecological information**

## **Toxicity**

### Toxicity to fish

semi-static test LC50 - Danio rerio (zebra fish) - > 28 mg/l - 96 h (OECD Test Guideline 203)

Remarks: (in analogy to similar products)

## Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - ca. 30,6 mg/l - 48 h (Regulation (EC) No. 440/2008, Annex, C.2)

### Toxicity to algae

static test ErC50 - Pseudokirchneriella subcapitata - 58 mg/l - 72 h (OECD Test Guideline 201)

## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

## Mobility in soil

No data available

### Results of PBT and vPvB assessment

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.

## Other adverse effects

Harmful to aquatic life. No data available

## SECTION 13: Disposal considerations

#### Waste treatment methods

## **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## Contaminated packaging

Dispose of as unused product.

## **SECTION 14: Transport information**

#### **UN** number

ADR/RID: - IMDG: - IATA: -

## **UN proper shipping name**

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

## Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

### **Packaging group**

ADR/RID: - IMDG: - IATA: -

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

### Special precautions for user

No data available

## **SECTION 15: Regulatory information**

## Safety, health and environmental regulations/legislation specific for the substance or mixture

## Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

## Measures for Environmental Management of New Chemical Substances

United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Listed. website: https://www.mee.gov.cn/

Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

EC Inventory:Listed.

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/

European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/

## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

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

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

#### Disclaimer

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