

# Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.10)

## NATURAL L-MENTHONE

Revision date: 25.06.2025

Product code: 266700

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

#### 1.1. Product identifier

NATURAL L-MENTHONE

CAS No: 89-80-5

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

##### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### 1.3. Details of the supplier of the safety data sheet

|                         |                                  |            |                    |
|-------------------------|----------------------------------|------------|--------------------|
| Company name:           | Axxence Aromatic GmbH            |            |                    |
| Street:                 | Tackenweide 28                   |            |                    |
| Place:                  | D-46446 Emmerich am Rhein        |            |                    |
| Telephone:              | + 49 2822 68561 0                | Telefax:   | + 49 2822 68561 39 |
| E-mail:                 | info@axxence.com                 |            |                    |
| Contact person:         | Safety Team                      | Telephone: | + 49 2822 68561 0  |
| E-mail:                 | safety-documentation@axxence.com |            |                    |
| Internet:               | www.axxence.de                   |            |                    |
| Responsible Department: | Safety Management                |            |                    |

#### 1.4. Emergency telephone number:

+49 2822 68561 99

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### UN GHS (ST/SG/AC.10/11/Rev.10)

Flammable liquid: Flam. Liq. 4  
 Acute toxicity: Acute Tox. 5 (oral)  
 Skin corrosion/irritation: Skin Irrit. 2  
 Respiratory or skin sensitisation: Skin Sens. 1  
 Hazardous to the aquatic environment: Aquatic Chronic 3  
 Hazardous to the aquatic environment: Aquatic Acute 3

#### 2.2. Label elements

##### UN GHS (ST/SG/AC.10/11/Rev.10)

##### Hazard components for labelling

NATURAL L-MENTHONE  
 NATURAL iso-MENTHONE

Signal word: Warning

Pictograms:



##### Hazard statements

|      |                                                    |
|------|----------------------------------------------------|
| H227 | Combustible liquid.                                |
| H303 | May be harmful if swallowed.                       |
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H412 | Harmful to aquatic life with long lasting effects. |

##### Precautionary statements

|      |                                                                                       |
|------|---------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No |
|------|---------------------------------------------------------------------------------------|

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|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| P273      | smoking.                                                                                      |
| P280      | Avoid release to the environment.                                                             |
| P302+P352 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P333+P317 | IF ON SKIN: Wash with plenty of water.                                                        |
| P370+P378 | If skin irritation or rash occurs: Get medical help.                                          |
| P370+P378 | In case of fire: Use sand, earth, extinguishing powder or foam to extinguish.                 |
| P403      | In case of fire: Use sand, earth, extinguishing powder or foam to extinguish.                 |
|           | Store in a well-ventilated place.                                                             |

### 2.3. Other hazards

Contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

Contains no substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                   |                                   |
|-------------------|-----------------------------------|
| Sum formula:      | C <sub>10</sub> H <sub>18</sub> O |
| Molecular weight: | 154,25 g/mol                      |

### Relevant ingredients

| CAS No   | Chemical name                                                                                           | Quantity    |
|----------|---------------------------------------------------------------------------------------------------------|-------------|
|          | Classification (UN GHS (ST/SG/AC.10/11/Rev.10))                                                         |             |
| 89-80-5  | NATURAL L-MENTHONE                                                                                      | 90 - < 95 % |
|          | Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 3, Aquatic Chronic 3; H302 H315 H317 H402 H412 |             |
| 491-07-6 | NATURAL iso-MENTHONE                                                                                    | 5 - < 10 %  |
|          | Skin Irrit. 2, Skin Sens. 1; H315 H317                                                                  |             |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

### 8.2. Exposure controls



#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye protection/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Use of protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                           |                |                    |
|-----------------------------------------------------------|----------------|--------------------|
| Physical state:                                           | Liquid         |                    |
| Colour:                                                   |                |                    |
|                                                           |                | <b>Test method</b> |
| Melting point/freezing point:                             | -12,8 °C       |                    |
| Boiling point or initial boiling point and boiling range: | 203 °C         |                    |
| Flammability:                                             | not applicable |                    |
|                                                           | not applicable |                    |
| Lower explosion limits:                                   | not determined |                    |
| Upper explosion limits:                                   | not determined |                    |
| Flash point:                                              | 72 °C          |                    |
| Auto-ignition temperature:                                | not determined |                    |
| Decomposition temperature:                                | not determined |                    |
| pH-Value (at 26,5 °C):                                    | 3,78           | OECD 122           |
| Water solubility:                                         | 0,69 g/l       |                    |
| (at 25 °C)                                                |                |                    |
| Solubility in other solvents                              |                |                    |
| not determined                                            |                |                    |
| Partition coefficient n-octanol/water:                    | 2,3            |                    |
| Vapour pressure:                                          | 0,37 hPa       |                    |
| (at 20 °C)                                                |                |                    |
| Density (at 20 °C):                                       | 0,996 g/cm³    |                    |
| Relative vapour density:                                  | not determined |                    |

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive. not explosive according to EU A.14

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Oxidizing properties

The product is not: oxidising.

### Other safety characteristics

Evaporation rate:

not determined

Solvent content:

0%

Solid content:

0%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

May be harmful if swallowed.

#### ATEmix calculated

ATE (oral) 2143 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

| CAS No  | Chemical name      |                  |         |                    |        |
|---------|--------------------|------------------|---------|--------------------|--------|
|         | Exposure route     | Dose             | Species | Source             | Method |
| 89-80-5 | NATURAL L-MENTHONE |                  |         |                    |        |
|         | oral               | LD50 1950 mg/kg  | Rat     | REACH registration |        |
|         | dermal             | LD50 >5000 mg/kg | Rabbit  | REACH registration |        |

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (NATURAL L-MENTHONE; NATURAL iso-MENTHONE)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

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### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.

| CAS No  | Chemical name            |                 |           |                                |                    |          |
|---------|--------------------------|-----------------|-----------|--------------------------------|--------------------|----------|
|         | Aquatic toxicity         | Dose            | [h]   [d] | Species                        | Source             | Method   |
| 89-80-5 | NATURAL L-MENTHONE       |                 |           |                                |                    |          |
|         | Acute fish toxicity      | LC50 17,6 mg/l  | 96 h      | Danio rerio (zebrafish)        | REACH registration | OECD 203 |
|         | Acute algae toxicity     | ErC50 16,2 mg/l | 72 h      | Scenedesmus subspicatus        | REACH registration | OECD 201 |
|         | Acute crustacea toxicity | EC50 26,6 mg/l  | 48 h      | Daphnia magna (Big water flea) | REACH registration | OECD 202 |

### 12.2. Persistence and degradability

The product has not been tested.

| The product has not been tested. |                                                        |       |    |                    |
|----------------------------------|--------------------------------------------------------|-------|----|--------------------|
| CAS No                           | Chemical name                                          |       |    |                    |
|                                  | Method                                                 | Value | d  | Source             |
|                                  | Evaluation                                             |       |    |                    |
| 89-80-5                          | NATURAL L-MENTHONE                                     |       |    |                    |
|                                  | OECD 301                                               | 5%    | 28 | REACH registration |
|                                  | Not readily biodegradable (according to OECD criteria) |       |    |                    |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No   | Chemical name        | Log Pow |
|----------|----------------------|---------|
| 89-80-5  | NATURAL L-MENTHONE   | 2,295   |
| 491-07-6 | NATURAL iso-MENTHONE | 2,755   |

### BCF

| CAS No  | Chemical name      | BCF      | Species | Source             |
|---------|--------------------|----------|---------|--------------------|
| 89-80-5 | NATURAL L-MENTHONE | 15 –58.2 |         | REACH registration |

### 12.4. Mobility in soil

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Marine transport (IMDG)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Air transport (ICAO-TI/IATA-DGR)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No information available.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

#### National regulatory information

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Employment restrictions:       | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions.                                                                        |

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,9,11,12,15,16.

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### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*