

## Safety Data Sheet

according to UN GHS (ST/SG/AC.10/11/Rev.8)

### NATURAL NEROL

Revision date: 06.01.2023

Product code: 277010WW

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

##### 1.1. Product identifier

NATURAL NEROL

Substance name: NATURAL NEROL  
 CAS No: 106-25-2

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

###### **Use of the substance/mixture**

For Flavour use for food and feed only

##### 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:         | Andreas Goertz             | Telephone: + 49 2822 68561 37 |
| e-mail:                 | andreas.goertz@axxence.com |                               |
| Internet:               | www.axxence.de             |                               |
| Responsible Department: | QM - Regulatory Affairs    |                               |

##### 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.8)**

Hazard categories:  
 Acute toxicity: Acute Tox. 5  
 Skin corrosion/irritation: Skin Irrit. 2  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Respiratory or skin sensitisation: Skin Sens. 1  
 Hazardous to the aquatic environment: Aquatic Acute 2  
 Hazard Statements:  
 May be harmful if swallowed.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 Toxic to aquatic life.

##### 2.2. Label elements

###### **UN GHS (ST/SG/AC.10/11/Rev.8)**

**Signal word:** Warning

**Pictograms:**



###### **Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H303 | May be harmful if swallowed.         |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |

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H401 Toxic to aquatic life.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P317 IF SWALLOWED: Get medical help.  
P302+P352 IF ON SKIN: Wash with plenty of Water and soap.  
P333+P317 If skin irritation or rash occurs: Get medical help.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P317 If eye irritation persists: Get medical help.  
P501 Dispose of contents/container to .

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: C10 H18 O

Molecular weight: 154,25

#### Hazardous components

| CAS No   | Chemical name  | Quantity |
|----------|--|----------|
|          | Classification (UN GHS (ST/SG/AC.10/11/Rev.8))   |          |
| 106-25-2 | NATURAL NEROL  | 100 %    |
|          | Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 2; H303 H315 H319 H317 H401 |          |

### 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

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#### 5.1. Extinguishing media

##### **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

##### **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.

#### 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

#### 8.1. Control parameters

#### 8.2. Exposure controls

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

##### Eye/face protection

Suitable eye protection: goggles.

##### 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:   | colourless              |
| Melting point/freezing point:                             | -15 °C                  |
| Boiling point or initial boiling point and boiling range: | 225 °C                  |
| Flammability  |                         |
| Solid/liquid:   | not applicable          |
| Gas:  | not applicable          |
| Lower explosion limits:                                   | not determined          |
| Upper explosion limits:                                   | not determined          |
| Flash point:  | 97 °C                   |
| Auto-ignition temperature:                                | 250 °C                  |
| Decomposition temperature:                                | not determined          |
| pH-Value:   | not determined          |
| Viscosity / kinematic:<br>(at 20 °C)                      | 10,1 mm <sup>2</sup> /s |
| Water solubility:<br>(at 20 °C)                           | 0,77 g/L                |
| Solubility in other solvents                              | not determined          |
| Partition coefficient n-octanol/water:                    | 3,47                    |
| Vapour pressure:<br>(at 20 °C)                            | 0,0024 hPa              |
| Vapour pressure:<br>(at 50 °C)                            | 3,2 hPa                 |
| Density (at 20 °C):                                       | 0,88 g/cm <sup>3</sup>  |
| Relative vapour density:<br>(at 20 °C)                    | 5,33                    |

### 9.2. Other information

#### Information with regard to physical hazard classes

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#### Explosive properties

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

#### Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

#### Oxidizing properties

Not oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solvent content:

0%

Solid content:

0%

Viscosity / dynamic:

8,9 mPa·s

(at 20 °C)

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

May be harmful if swallowed.

| CAS No   | Chemical name  |               |         |        |                           |
|----------|----------------|---------------|---------|--------|---------------------------|
|          | Exposure route | Dose          | Species | Source | Method                    |
| 106-25-2 | NATURAL NEROL  |               |         |        |                           |
|          | oral           | LD50<br>mg/kg | 4500    | Rat    | REACH Dossier<br>OECD 401 |
|          | dermal         | LD50<br>mg/kg | >5000   | Rabbit | REACH Dossier<br>OECD 402 |

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (NATURAL NEROL)

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

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

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#### STOT-single exposure

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

#### 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.

#### Additional information on tests

Classification according to Regulation (EC) No 1272/2008 [CLP]: health hazard properties

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No   | Chemical name            |                |           |         |                                 |                           |
|----------|--------------------------|----------------|-----------|---------|---------------------------------|---------------------------|
|          | Aquatic toxicity         | Dose           | [h]   [d] | Species | Source                          | Method                    |
| 106-25-2 | NATURAL NEROL            |                |           |         |                                 |                           |
|          | Acute fish toxicity      | LC50<br>mg/l   | 20,3      | 96 h    | Danio rerio (zebrafish)         | REACH Dossier<br>OECD 203 |
|          | Acute algae toxicity     | ErC50<br>mg/l  | 7,45      | 72 h    | Pseudokirchneriella subcapitata | REACH Dossier<br>OECD 201 |
|          | Acute crustacea toxicity | EC50<br>mg/l   | 32,4      | 48 h    | Daphnia magna (Big water flea)  | REACH Dossier<br>OECD 202 |
|          | Acute bacteria toxicity  | (EC50<br>mg/l) | 241       | 3 h     | Activated sludge                | REACH Dossier<br>OECD 209 |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No   | Chemical name                                       |       |    |               |
|----------|---|-------|----|---------------|
|          | Method  | Value | d  | Source        |
|          | Evaluation  |       |    |               |
| 106-25-2 | NATURAL NEROL                                       |       |    |               |
|          | OECD 301D   | 69%   | 7  | REACH Dossier |
|          | Readily biodegradable (according to OECD criteria). |       |    |               |
|          | OECD 301D   | 84%   | 14 | REACH Dossier |
|          | Readily biodegradable (according to OECD criteria). |       |    |               |
|          | OECD 301D   | 90%   | 28 | REACH Dossier |
|          | 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 |
|----------|---------------|---------|
| 106-25-2 | NATURAL NEROL | 2,67    |

##### BCF

| CAS No   | Chemical name | BCF  | Species | Source        |
|----------|---------------|------|---------|---------------|
| 106-25-2 | NATURAL NEROL | 35,4 |         | REACH Dossier |

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#### 12.4. Mobility in soil

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 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.

### 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

#### **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

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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  
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  
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>

**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.