

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

# **NATURAL ALPHA-IONONE**

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

### 1.1. Product identifier

NATURAL ALPHA-IONONE

Substance name: NATURAL ALPHA-IONONE

CAS No: 127-41-3

# 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 +49 2822 68561 99

number:

#### **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)

Hazardous to the aquatic environment: Aquatic Chronic 2 Hazardous to the aquatic environment: Aquatic Acute 2

### 2.2. Label elements

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

Signal word: Warning

Pictograms:



## **Hazard statements**

H227 Combustible liquid.

H303 May be harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

# **Precautionary statements**

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

smokina.

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.

P391 Collect spillage.

Print date: 08.10.2024



# **Safety Data Sheet**

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P403 Store in a well-ventilated place.

P501 Dispose of contents/container to organic waste.

## 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: C13 H20 O Molecular weight: 192,30 g/mol

#### Relevant ingredients

| CAS No     | Chemical name  | Quantity     |
|------------|--|--------------|
|            | Classification (UN GHS (ST/SG/AC.10/11/Rev.10))                  |              |
| 127-41-3   | NATURAL ALPHA-IONONE   | 95,0 - 99,0% |
|            | Flam. Liq. 4, Acute Tox. 5, Aquatic Acute 2; H227 H303 H401      |              |
| 14901-07-6 | NATURAL BETA-IONONE  | 1,0 - 5,0%   |
|            | Acute Tox. 5, Aquatic Acute 2, Aquatic Chronic 2; H303 H401 H411 |              |

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink 1 glass of 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

### 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

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

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

### **SECTION 6: Accidental release measures**



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

## General advice

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

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. 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

## 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.



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#### 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:

Test method

Melting point/freezing point:

-16 °C

Boiling point or initial boiling point and

237 °C

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined Flash point: 87 °C Auto-ignition temperature: not determined Decomposition temperature: not determined

pH-Value (at 29 °C): 4,55 OECD 122

Viscosity / kinematic: 41,15 mm²/s

(at 20 °C)

Water solubility: 0,059 g/l

(at 25 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 3,896 Vapour pressure: 0,0013 hPa

(at 20 °C)

Density (at 20 °C): 0,93 g/cm<sup>3</sup>

Relative vapour density: (at 20 °C)

Particle characteristics: not applicable

### 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

Oxidizing properties

The product is not: oxidising.

# Other safety characteristics

Evaporation rate:not determinedSolvent content:0%Solid content:0%Viscosity / dynamic:36,45 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



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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.

| CAS No     | Chemical name           | Chemical name |        |         |               |        |  |  |
|------------|-------------------------|---------------|--------|---------|---------------|--------|--|--|
|            | Exposure route          | Dose          |        | Species | Source        | Method |  |  |
| 127-41-3   | NATURAL ALPHA-IONONE    |               |        |         |               |        |  |  |
|            | oral                    | LD50<br>mg/kg | 4590   | Rat     | REACH Dossier |        |  |  |
|            | dermal                  | LD50<br>mg/kg | >5000  | Rabbit  | REACH Dossier |        |  |  |
| 14901-07-6 |                         |               |        |         |               |        |  |  |
|            | oral                    | LD50<br>mg/kg | 4590   | Rat     | REACH Dossier |        |  |  |
|            | dermal                  | LD50<br>mg/kg | 5331   | Mouse   | REACH Dossier |        |  |  |
|            | inhalation (4 h) vapour | LC50<br>mg/l  | 538,49 | Rat     | REACH Dossier |        |  |  |

# Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

### Sensitising effects

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

### 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.

### 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.

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

No information available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Toxic to aquatic life.



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Toxic 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 |  |
| 127-41-3   | NATURAL ALPHA-IONONE     |               |          |           |                                    |               |        |  |
|            | Acute fish toxicity      | LC50          | 6,8 mg/l |           | Leuciscus idus<br>(golden orfe)    | REACH Dossier |        |  |
|            | Acute algae toxicity     | ErC50<br>mg/l | 22,2     | 72 h      | Desmodesmus subspicatus            | REACH Dossier |        |  |
|            | Acute crustacea toxicity | EC50<br>mg/l  | 2,65     | 1         | Daphnia magna (Big<br>water flea)  | REACH Dossier |        |  |
|            | Fish toxicity            | NOEC<br>mg/l  | 0,173    | 28 d      | fish species<br>(undefined)        | REACH Dossier |        |  |
|            | Crustacea toxicity       | NOEC<br>mg/l  | 0,17     |           | freshwater invertebrates           | REACH Dossier |        |  |
| 14901-07-6 | NATURAL BETA-IONONE      |               |          |           |                                    |               |        |  |
|            | Acute fish toxicity      | LC50<br>mg/l  | 2,571    | 96 h      | Oryzias latipes<br>(Ricefish)      | REACH Dossier |        |  |
|            | Acute algae toxicity     | ErC50<br>mg/l | 3,223    | 72 h      | Pseudokirchneriella<br>subcapitata | REACH Dossier |        |  |
|            | Acute crustacea toxicity | EC50<br>mg/l  | 1,641    | 48 h      | Daphnia magna (Big<br>water flea)  | REACH Dossier |        |  |

# 12.2. Persistence and degradability

The product has not been tested.

|            | The state of the s |       |    |               |
|------------|--|-------|----|---------------|
| CAS No     | Chemical name  |       |    |               |
|            | Method   | Value | d  | Source        |
|            | Evaluation   | -     | -  | •             |
| 127-41-3   | NATURAL ALPHA-IONONE   |       |    |               |
|            | OECD 301B  | 75,4% | 28 | REACH Dossier |
|            | inherently biodegradable   |       |    |               |
| 14901-07-6 | NATURAL BETA-IONONE  |       |    |               |
|            |  | 50%   | 38 | REACH Dossier |
|            | 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 |
|------------|----------------------|---------|
| 127-41-3   | NATURAL ALPHA-IONONE | 3,896   |
| 14901-07-6 | NATURAL BETA-IONONE  | 3,84    |

# BCF

| CAS No     | Chemical name        | BCF | Species | Source        |
|------------|----------------------|-----|---------|---------------|
| 127-41-3   | NATURAL ALPHA-IONONE | 161 | Fish    | REACH Dossier |
| 14901-07-6 | NATURAL BETA-IONONE  | 159 |         | REACh Dossier |

# 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.



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#### 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)

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

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

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

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: NATURAL ALPHA-IONONE

#### 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).

### **SECTION 16: Other information**



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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

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 EC/EEC: European Community/European Economic Community

EU: European Union M-factor: Multiplying factor

IATA: International Air Transport Association DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions

VOC: volatile organic compound

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.



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