

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**NATURAL BETA-DAMASCENONE 1% IN ETHANOL**

Revision date: 09/27/2022

Product code: 342000US

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**1. Identification****Product identifier**

NATURAL BETA-DAMASCENONE 1% IN ETHANOL

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

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

**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   |
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| Internet:               | www.axxence.de             |                               |
| Responsible Department: | QM - Regulatory Affairs    |                               |

**Emergency phone number:** +49 2822 68561 99**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**Flammable liquids: Flam. Liq. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Respiratory or skin sensitization: Skin Sens. 1**Label elements****29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**Highly flammable liquid and vapor  
May cause an allergic skin reaction  
Causes serious eye irritation**Precautionary statements**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of Water and soap.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use Carbon dioxide (CO<sub>2</sub>) / alcohol resistant foam to extinguish.  
 Store in a well-ventilated place. Keep cool.  
 Dispose of contents/container to Organic waste.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

| CAS No     | Components                   | Quantity      |
|------------|------------------------------|---------------|
| 64-17-5    | ethanol, ethyl alcohol       | 98,0 - 99,0 % |
| 23696-85-7 | NATURAL $\beta$ -DAMASCENONE | 1,0 - 2,0 %   |

### 4. First-aid measures

#### 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.

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

No information available.

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

Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

##### **Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

#### Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.

#### Special protective equipment and precautions for fire-fighters

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

#### **Additional information**

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

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

### 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.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

#### 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.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

| CAS No  | Substance               | ppm  | mg/m <sup>3</sup> | f/cc | Category      | Origin     |
|---------|-------------------------|------|-------------------|------|---------------|------------|
| 64-17-5 | Ethanol                 | 1000 |                   |      | STEL (15 min) | ACGIH-2022 |
| 64-17-5 | Ethyl alcohol (Ethanol) | 1000 | 1900              |      | TWA (8 h)     | PEL        |
| 64-17-5 | Ethyl alcohol           | 1000 | 1900              |      | TWA (8 h)     | REL        |

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#### Exposure controls



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**

Flame-retardant protective clothing. Wear anti-static footwear and clothing . .

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Thermal hazards**

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

|   |                        |
|---|------------------------|
| Physical state:   | Liquid                 |
| Color:  | colorless              |
| Melting point/freezing point:                             | N/A                    |
| Boiling point or initial boiling point and boiling range: | > 78 °C                |
| Flammability  |                        |
| Solid/liquid:   | not applicable         |
| Gas:  | not applicable         |
| Lower explosion limits:                                   | 3,1 vol. %             |
| Upper explosion limits:                                   | 27,7 vol. %            |
| Flash point:  | 12 °C                  |
| Auto-ignition temperature:                                | 363 °C                 |
| Decomposition temperature:                                | not determined         |
| pH-Value (at 20 °C):                                      | 7                      |
| Water solubility:   | 780 g/L                |
| (at 20 °C)  |                        |
| Solubility in other solvents                              |                        |
| not determined  |                        |
| Partition coefficient n-octanol/water:                    | -0,35                  |
| Vapor pressure:   | 58 hPa                 |
| (at 20 °C)  |                        |
| Vapor pressure:   | 293 hPa                |
| (at 50 °C)  |                        |
| Density (at 20 °C):                                       | 0,79 g/cm <sup>3</sup> |
| Relative vapour density:                                  | 1,59                   |
| (at 20 °C)  |                        |

#### Other information

**Information with regard to physical hazard classes**

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#### Explosive properties

The product is not: Explosive. not hazard of explosion according to EU A.14

#### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solvent content:

99%

Solid content:

0%

## 10. Stability and reactivity

### Reactivity

Highly flammable.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

### Incompatible materials

No information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

#### ATEmix calculated

ATE (dermal) 290000,0 mg/kg

| CAS No     | Components                   |               |          |         |               |          |
|------------|------------------------------|---------------|----------|---------|---------------|----------|
|            | Exposure route               | Dose          |          | Species | Source        | Method   |
| 64-17-5    | ethanol, ethyl alcohol       |               |          |         |               |          |
|            | oral                         | LD50<br>mg/kg | 10470    | Rat     | REACH Dossier | OECD 401 |
|            | dermal                       | LD50<br>mg/kg | 17100    | Rabbit  | REACH Dossier |          |
|            | inhalation (4 h) vapour      | LC50          | 121 mg/l | Rat     | REACH Dossier | OECD 403 |
| 23696-85-7 | NATURAL $\beta$ -DAMASCENONE |               |          |         |               |          |
|            | oral                         | LD50<br>mg/kg | >5000    | Rat     |               |          |
|            | dermal                       | LD50<br>mg/kg | 2900     | Rabbit  | IFRA/IOFI LM  |          |

#### Irritation and corrosivity

Causes serious eye irritation

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

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**Sensitizing effects**May cause an allergic skin reaction (NATURAL  $\beta$ -DAMASCENONE)**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

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

**Information on other hazards****Endocrine disrupting properties**

No information available.

**Further information**

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

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**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.

**Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

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

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**14. Transport information****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 1170

**Proper shipping name:**

ETHANOL SOLUTIONS

**Transport hazard class(es):**

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**Packing group:** II  
Hazard label: 3



**Marine transport (IMDG)**

**UN number or ID number:** UN 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



Special Provisions: 144  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-D

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

**UN number or ID number:** UN 1170  
**UN proper shipping name:** ETHANOL SOLUTION  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



Special Provisions: A3 A58 A180  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Warning: Combustible liquid.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

### 15. Regulatory information

**U.S. Regulations**

**National regulatory information**

SARA Section 311/312 Hazards:  
ethanol, ethyl alcohol (64-17-5): Fire hazard, Immediate (acute) health hazard  
NATURAL β-DAMASCENONE (23696-85-7): Immediate (acute) health hazard

**State Regulations**

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**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**

Revision date: 27.09.2022

Revision No: 102

**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>  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Other data**

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