

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

## NATURAL TRANS-2-NONENAL 1% IN ETHANOL

Revision date: 28.02.2024

Product code: 321300WW

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

### 1.1. Product identifier

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## 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. 2 Skin corrosion/irritation: Skin Irrit. 3 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

### 2.2. Label elements

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

## Hazard components for labelling

NATURAL TRANS-2-NONENAL Danger

Signal word:

**Pictograms:** 



#### Hazard statements

| H225 | Highly flammable liquid and vapour.  |
|------|--------------------------------------|
| H316 | Causes mild skin irritation.         |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |

#### **Precautionary statements**

| ay from heat, hot surfaces, sparks, open flames and other ignition sources. No |
|--|
| tainer tightly closed.   |
| nd bond container and receiving equipment.                                     |
| osion-proof electrical/ventilating/lighting equipment.                         |
| sparking tools.  |
| t<br>r   |



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|---|--|
| Take action to prevent static discharges.   |  |
| Avoid breathing dust/fume/gas/mist/vapours/spray.   |  |
| Contaminated work clothing should not be allowed out of the workplace.  |  |
| Wear protective gloves/protective clothing/eye protection/face protection/hearing<br>protection.                                    |  |
| IF ON SKIN: Wash with plenty of Water and soap.   |  |
| IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with<br>water or shower.                           |  |
| If skin irritation or rash occurs: Get medical help.  |  |
| Take off contaminated clothing and wash it before reuse.  |  |
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br>present and easy to do. Continue rinsing. |  |
| If eye irritation persists: Get medical help.   |  |
| In case of fire: Use Water spray jet to extinguish.   |  |
| Store in a well-ventilated place. Keep cool.  |  |
| Dispose of contents/container to organic waste.   |  |
|   | <ul> <li>Take action to prevent static discharges.</li> <li>Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>IF ON SKIN: Wash with plenty of Water and soap.</li> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>If skin irritation or rash occurs: Get medical help.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If eye irritation persists: Get medical help.</li> <li>In case of fire: Use Water spray jet to extinguish.</li> <li>Store in a well-ventilated place. Keep cool.</li> </ul> |

### 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

### **Relevant ingredients**

| CAS No     | Chemical name  | Quantity      |
|------------|--|---------------|
|            | Classification (UN GHS (ST/SG/AC.10/11/Rev.10))                              |               |
| 64-17-5    | ethanol, ethyl alcohol   | 98,5 - 99,0 % |
|            | Flam. Liq. 2, Eye Irrit. 2; H225 H319  |               |
| 18829-56-6 | NATURAL TRANS-2-NONENAL  | 1,0 - 1,5 %   |
|            | Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H313 H315 H319 H317 |               |

### **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

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 of water.

#### **<u>4.2. Most important symptoms and effects, both acute and delayed</u> 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

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

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

Highly flammable. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 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. 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

Remove all sources of ignition.

### For emergency responders

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

#### 6.2. Environmental precautions

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

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

### For cleaning up

Ventilate affected area.

### 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

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can 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.

#### 7.2. 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.



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### Hints on joint storage

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls





### 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 .

### **SECTION 9: Physical and chemical properties**

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

| Physical state:                            | Liquid              |
|--|---------------------|
| Colour:                                    |                     |
| Odour:                                     | characteristic      |
| Melting point/freezing point:              | not determined      |
| Boiling point or initial boiling point and | 78 °C               |
| boiling range:                             |                     |
| Flammability:                              | not determined      |
| 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:                                  | not determined      |
| Viscosity / kinematic:                     | not applicable      |
| Water solubility:                          | completely miscible |
| Solubility in other solvents               |                     |
| not determined                             |                     |
| Partition coefficient n-octanol/water:     | not determined      |
| Vapour pressure:                           | 58 hPa              |
| (at 20 °C)                                 |                     |



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#### NATURAL TRANS-2-NONENAL 1% IN ETHANOL Revision date: 28.02.2024 Product code: 321300WW Page 5 of 10 Vapour pressure: 293 hPa (at 50 °C) 0,79 g/cm<sup>3</sup> Density: Relative vapour density: not determined 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 determined Solvent content: 99.00 % Solid content: 0% **SECTION 10: Stability and reactivity** 10.1. Reactivity

Highly flammable.

## 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

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

### 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

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

## ATEmix calculated

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



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| CAS No     | Chemical name                  | Chemical name |          |         |   |                                      |          |  |
|------------|--------------------------------|---------------|----------|---------|---|--------------------------------------|----------|--|
|            | Exposure route                 | Dose          |          | Species | S | ource                                | Method   |  |
| 64-17-5    | ethanol, ethyl alcohol         |               |          |         |   |                                      |          |  |
|            | oral                           | LD50<br>mg/kg | 10470    | Rat     | R | EACH Dossier                         | OECD 401 |  |
|            | dermal                         | LD50<br>mg/kg | 17100    | Rabbit  | R | EACH Dossier                         |          |  |
|            | inhalation (4 h) vapour        | LC50          | 121 mg/l | Rat     | R | EACH Dossier                         | OECD 403 |  |
| 18829-56-6 | 0-56-6 NATURAL TRANS-2-NONENAL |               |          |         |   |                                      |          |  |
|            | oral                           | LD50<br>mg/kg | >5000    | Rat     |   | ood and Chem. Tox.,<br>0 (775), 1982 |          |  |
|            | dermal                         | LD50<br>mg/kg | 3700     | Rabbit  |   | ood and Chem. Tox.,<br>0 (775), 1982 |          |  |

### Irritation and corrosivity

Skin corrosion/irritation: Causes mild skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

### Sensitising effects

May cause an allergic skin reaction. (NATURAL TRANS-2-NONENAL)

### 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

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.

### Other information

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

### **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.



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| CAS No  | Chemical name            |                |          |           |   |               |                         |
|---------|--------------------------|----------------|----------|-----------|---|---------------|-------------------------|
|         | Aquatic toxicity         | Dose           |          | [h]   [d] | Species                                 | Source        | Method                  |
| 64-17-5 | ethanol, ethyl alcohol   |                |          |           |   |               |                         |
|         | Acute fish toxicity      | LC50<br>mg/l   | 14200    |           | Pimephales promelas<br>(fathead minnow) | REACH Dossier | US EPA method<br>E03-05 |
|         | Acute algae toxicity     | ErC50          | 275 mg/l | 72 h      | Chlorella vulgaris                      | REACH Dossier | OECD 201                |
|         | Acute crustacea toxicity | EC50<br>mg/l   | 5012     | 48 h      | Ceriodaphnia spec                       | REACH Dossier | ASTM E729-80            |
|         | Fish toxicity            | NOEC           | 250 mg/l | 5 d       | Danio rerio (zebrafish)                 | REACH Dossier | OECD 212                |
|         | Crustacea toxicity       | NOEC           | 9,6 mg/l | 9 d       | Daphnia magna                           | REACH Dossier |                         |
|         | Acute bacteria toxicity  | EC50<br>mg/l() | >1000    | 3 h       | Activated sludge                        | REACH Dossier | OECD 209                |

## 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name                                       |       |    |               |
|---------|---|-------|----|---------------|
|         | Method  | Value | d  | Source        |
|         | Evaluation  |       |    |               |
| 64-17-5 | ethanol, ethyl alcohol                              |       |    |               |
|         | OECD 301B   | 95%   | 28 | REACH Dossier |
|         | Readily biodegradable (according to OECD criteria). |       |    |               |
|         | OECD 301B   | 84%   | 20 | REACH Dossier |
|         | Readily biodegradable (according to OECD criteria). |       |    |               |
|         | OECD 301B   | 74%   | 5  | 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 |
|------------|-------------------------|---------|
| 64-17-5    | ethanol, ethyl alcohol  | -0,3    |
| 18829-56-6 | NATURAL TRANS-2-NONENAL | 3,319   |

### BCF

| CAS No  | Chemical name          | BCF | Species                          | Source             |
|---------|------------------------|-----|----------------------------------|--------------------|
| 64-17-5 | ethanol, ethyl alcohol |     | Cyprinus carpio (Common<br>Carp) | 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. No information available.

### 12.7. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods



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## **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.

# **SECTION 14: Transport information**

## Marine transport (IMDG)

| 14.1. UN number or ID number:                 | UN 1170   |
|---|---|
| 14.2. UN proper shipping name:                | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                                   |
| 14.3. Transport hazard class(es):             | 3   |
| 14.4. Packing group:                          | ll  |
| Hazard label:                                 | 3   |
|   |   |
|   |   |
|   |   |
|   | 3   |
| Special Provisions:                           | 144   |
| Limited quantity:                             | 1 L   |
| Excepted quantity:                            | E2  |
| EmS:  | F-E, S-D  |
| Air transport (ICAO-TI/IATA-DGR)              |   |
| 14.1. UN number or ID number:                 | UN 1170   |
| 14.2. UN proper shipping name:                | ETHANOL SOLUTION  |
| 14.3. Transport hazard class(es):             | 3   |
| 14.4. Packing group:                          |   |
| Hazard label:                                 | 3   |
|   |   |
|   |   |
|   |   |
|   | 3   |
| Special Provisions:                           | A3 A58 A180   |
| Limited quantity Passenger:                   | 1L  |
| 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  |
|   | 00 L  |
| 14.5. Environmental hazards                   |   |
| ENVIRONMENTALLY HAZARDOUS:                    | No  |
| 14.6. Special precautions for user            |   |
| Warning: Combustible liquid.                  |   |
| 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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### Changes

This data sheet contains changes from the previous version in section(s): 2.

### 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.)