

## Safety Data Sheet

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

### NATURAL PYRAZINES 16

Revision date: 29.02.2024

Product code: 327220WW

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

##### 1.1. Product identifier

NATURAL PYRAZINES 16

##### 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. 3  
Acute toxicity: Acute Tox. 4 (oral)

##### 2.2. Label elements

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

###### Hazard components for labelling

NATURAL 2,5-DIMETHYLPYRAZINE  
NATURAL 2,6-DIMETHYLPYRAZINE  
NATURAL 2-ETHYL-6-METHYL PYRAZINE  
NATURAL 2-ETHYL-5-METHYLPYRAZINE  
NATURAL 2,3,5-TRIMETHYLPYRAZINE  
NATURAL 2-ETHYLPYRAZINE  
NATURAL 2,3-DIMETHYLPYRAZINE

**Signal word:** Warning

**Pictograms:**



###### Hazard statements

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.

###### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.

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|                |  |
|----------------|--|
| P241           | Use explosion-proof electrical/ventilating/lighting equipment.   |
| P242           | Use non-sparking tools.  |
| P243           | Take action to prevent static discharges.  |
| P264           | Wash hands thoroughly after handling.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.          |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |
| 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

##### Relevant ingredients

| CAS No     | Chemical name                                   | Quantity  |
|------------|---|-----------|
|            | Classification (UN GHS (ST/SG/AC.10/11/Rev.10)) |           |
| 123-32-0   | NATURAL 2,5-DIMETHYLPYRAZINE                    | 55 - 60 % |
|            | Flam. Liq. 3, Acute Tox. 4; H226 H302           |           |
| 108-50-9   | NATURAL 2,6-DIMETHYLPYRAZINE                    | 12 - 22 % |
|            | Flam. Sol. 1, Acute Tox. 4; H228 H302           |           |
| 13925-03-6 | NATURAL 2-ETHYL-6-METHYL PYRAZINE               | 9 - 15 %  |
|            | Acute Tox. 4; H302                              |           |
| 13360-64-0 | NATURAL 2-ETHYL-5-METHYLPYRAZINE                | 3 - 9 %   |
|            | Acute Tox. 4; H302                              |           |
| 14667-55-1 | NATURAL 2,3,5-TRIMETHYLPYRAZINE                 | 3 - 9 %   |
|            | Acute Tox. 4, Aquatic Acute 3; H302 H402        |           |
| 13925-00-3 | NATURAL 2-ETHYLPYRAZINE                         | 0 - 5 %   |
|            | Flam. Liq. 3, Acute Tox. 4; H226 H302           |           |
| 5910-89-4  | NATURAL 2,3-DIMETHYLPYRAZINE                    | 0 - 5 %   |
|            | Flam. Liq. 3, Acute Tox. 4; H226 H302           |           |

### 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. In case of eye irritation consult an ophthalmologist.

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**After ingestion**

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

**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**

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

**Unsuitable extinguishing media**

Water.

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

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. 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. 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 uncontrolled discharge of product into the environment. Explosion risk.

**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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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#### 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.

##### 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



#### 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:   |                |
| Melting point/freezing point:                             | not determined |
| Boiling point or initial boiling point and boiling range: | 154 °C         |
| Flammability:   | not determined |
| Lower explosion limits:                                   | not determined |
| Upper explosion limits:                                   | not determined |
| Flash point:  | 54 °C          |
| Auto-ignition temperature:                                | not determined |

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|  |                        |
|--|------------------------|
| Decomposition temperature:                     | not determined         |
| pH-Value:                                      | not determined         |
| Viscosity / kinematic:                         | not determined         |
| Water solubility:                              | No                     |
| Solubility in other solvents<br>not determined |                        |
| Partition coefficient n-octanol/water:         | not determined         |
| Vapour pressure:<br>(at 20 °C)                 | <4 hPa                 |
| Density (at 20 °C):                            | 0,98 g/cm <sup>3</sup> |
| 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:  | 0%             |
| Solid content:    | 14,00 %        |

## SECTION 10: Stability and reactivity

#### **10.1. Reactivity**

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**

Harmful if swallowed.

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| CAS No     | Chemical name                     |                    |         |                                       |        |
|------------|-----------------------------------|--------------------|---------|---------------------------------------|--------|
|            | Exposure route                    | Dose               | Species | Source                                | Method |
| 123-32-0   | NATURAL 2,5-DIMETHYLPYRAZINE      |                    |         |                                       |        |
|            | oral                              | LD50 1020<br>mg/kg | Rat     | TheGoodScentCompa<br>ny               |        |
| 108-50-9   | NATURAL 2,6-DIMETHYLPYRAZINE      |                    |         |                                       |        |
|            | oral                              | LD50 880<br>mg/kg  | Rat     | TheGoodScentsComp<br>any              |        |
| 13925-03-6 | NATURAL 2-ETHYL-6-METHYL PYRAZINE |                    |         |                                       |        |
|            | oral                              | ATE 500<br>mg/kg   |         |                                       |        |
| 13360-64-0 | NATURAL 2-ETHYL-5-METHYLPYRAZINE  |                    |         |                                       |        |
|            | oral                              | LD50 900<br>mg/kg  | Rat     | Drug and Chemical<br>Toxicology. 1980 |        |
| 14667-55-1 | NATURAL 2,3,5-TRIMETHYLPYRAZINE   |                    |         |                                       |        |
|            | oral                              | LD50 806<br>mg/kg  | Rat     | Drug and Chemical<br>Toxicology. 1980 |        |
| 13925-00-3 | NATURAL 2-ETHYLPYRAZINE           |                    |         |                                       |        |
|            | oral                              | ATE 500<br>mg/kg   |         |                                       |        |
| 5910-89-4  | NATURAL 2,3-DIMETHYLPYRAZINE      |                    |         |                                       |        |
|            | oral                              | LD50 613<br>mg/kg  | Rat     | TheGoodScentsComp<br>any              |        |

#### 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

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

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The product is not: Ecotoxic.

| CAS No     | Chemical name                   |               |           |         |             |                         |
|------------|---------------------------------|---------------|-----------|---------|-------------|-------------------------|
|            | Aquatic toxicity                | Dose          | [h]   [d] | Species | Source      | Method                  |
| 14667-55-1 | NATURAL 2,3,5-TRIMETHYLPYRAZINE |               |           |         |             |                         |
|            | Acute algae toxicity            | ErC50<br>mg/l | 82,63     | 96 h    | Green algae | Danish QSAR<br>Database |

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No     | Chemical name                     | Log Pow |
|------------|-----------------------------------|---------|
| 123-32-0   | NATURAL 2,5-DIMETHYLPYRAZINE      | 0,63    |
| 108-50-9   | NATURAL 2,6-DIMETHYLPYRAZINE      | 0,54    |
| 13925-03-6 | NATURAL 2-ETHYL-6-METHYL PYRAZINE | 1,2     |
| 13360-64-0 | NATURAL 2-ETHYL-5-METHYLPYRAZINE  | 1,2     |
| 14667-55-1 | NATURAL 2,3,5-TRIMETHYLPYRAZINE   | 0,95    |
| 13925-00-3 | NATURAL 2-ETHYLPYRAZINE           | 0,69    |
| 5910-89-4  | NATURAL 2,3-DIMETHYLPYRAZINE      | 0,54    |

#### 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.

### 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)**

|  |                          |
|--|--------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                  |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S. |
| <b>14.3. Transport hazard class(es):</b> | 3                        |
| <b>14.4. Packing group:</b>              | III                      |
| Hazard label:                            | 3                        |

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|                     |             |
|---------------------|-------------|
| Special Provisions: | 223 274 955 |
| Limited quantity:   | 5 L         |
| Excepted quantity:  | E1          |
| EmS:                | F-E, S-E    |

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

|  |                          |
|--|--------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                  |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S. |
| <b>14.3. Transport hazard class(es):</b> | 3                        |
| <b>14.4. Packing group:</b>              | III                      |
| Hazard label:                            | 3                        |



|  |       |
|--|-------|
| Special Provisions:                    | A3    |
| Limited quantity Passenger:            | 10 L  |
| Passenger LQ:                          | Y344  |
| Excepted quantity:                     | E1    |
| IATA-packing instructions - Passenger: | 355   |
| IATA-max. quantity - Passenger:        | 60 L  |
| IATA-packing instructions - Cargo:     | 366   |
| IATA-max. quantity - Cargo:            | 220 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

**Changes**

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



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

**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.)*