

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**NATURAL PYRAZINES MIXTURE No. 10**

Revision date: 12/15/2022

Product code: 314910US

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

NATURAL PYRAZINES MIXTURE No. 10

**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	
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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. 4  
Acute toxicity: Acute Tox. 4 (oral)**Label elements****29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**Combustible liquid  
Harmful if swallowed**Precautionary statements**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Call a poison center/doctor if you feel unwell.  
Rinse mouth.  
Store in a well-ventilated place.  
Dispose of contents/container to Organic waste.**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients**

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#### Mixtures

##### Hazardous components

CAS No	Components	Quantity
13360-65-1	NATURAL 2-ETHYL-3,6-DIMETHYLPYRAZINE	21 - 25 %
13925-03-6	NATURAL 2-ETHYL-6-METHYL PYRAZINE	20 - 24 %
13360-64-0	NATURAL 2-ETHYL-5-METHYLPYRAZINE	14 - 17 %
15707-34-3	NATURAL 2-ETHYL-5,6-DIMETHYLPYRAZINE	9 - 12 %
13925-07-0	NATURAL 2-ETHYL-3,5-DIMETHYLPYRAZINE	6 - 9 %
14667-55-1	NATURAL 2,3,5-TRIMETHYLPYRAZINE	5 - 8 %
123-32-0	NATURAL 2,5-DIMETHYLPYRAZINE	4 - 7 %
15707-23-0	NATURAL 2-ETHYL-3-METHYLPYRAZINE	2 - 5 %
18138-04-0	NATURAL 2,3-DIETHYL-5-METHYLPYRAZINE <sup>^</sup>	0 - 2 %
18138-05-1	NATURAL 3,5-DIETHYL-2-METHYLPYRAZINE	0 - 2 %
32736-91-7	NATURAL 2,5-DIETHYL-3-METHYLPYRAZINE	0 - 2 %

#### 4. First-aid measures

##### 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.

###### **After ingestion**

Rinse mouth immediately and drink 1 glass of water. Medical treatment necessary.

##### 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**

Co-ordinate fire-fighting measures to the fire surroundings.

##### Specific hazards arising from the chemical

Non-flammable. Vapors may form explosive mixtures with air.

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

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

##### 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.

#### 6. Accidental release measures

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**Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**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**

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

**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. 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.

**Hints on joint storage**

No special measures are necessary.

**8. Exposure controls/personal protection****Control parameters****Exposure controls****Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye/face protection.

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#### 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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Colourless to pale brown
Odor:	Nutty, earthy, roasted nuts, cocoa, coffee, chocolate
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	~180 °C
Flammability	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	64 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapor pressure:	not determined
Density (at 20 °C):	0,97 g/cm <sup>3</sup>
Relative vapour density:	not determined

### Other information

#### Information with regard to physical hazard classes

Explosive properties

not hazard of explosion according to EU A.14

Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate: not determined

Solid content: not determined

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

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#### Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

none/none

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

### 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

Harmful if swallowed

##### **ATEmix calculated**

ATE (oral) 640,7 mg/kg

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
13360-65-1	NATURAL 2-ETHYL-3,6-DIMETHYLPYRAZINE				
	oral	LD50 456 mg/kg	Rat		
13925-03-6	NATURAL 2-ETHYL-6-METHYL PYRAZINE				
	oral	ATE 500 mg/kg			
13360-64-0	NATURAL 2-ETHYL-5-METHYLPYRAZINE				
	oral	LD50 900 mg/kg	Rat	Drug and Chemical Toxicology. 1980	
13925-07-0	NATURAL 2-ETHYL-3,5-DIMETHYLPYRAZINE				
	oral	LD50 456 mg/kg	Rat		
14667-55-1	NATURAL 2,3,5-TRIMETHYLPYRAZINE				
	oral	LD50 806 mg/kg	Rat	Drug and Chemical Toxicology. 1980	
123-32-0	NATURAL 2,5-DIMETHYLPYRAZINE				
	oral	LD50 1020 mg/kg	Rat	TheGoodScentCompany	
15707-23-0	NATURAL 2-ETHYL-3-METHYLPYRAZINE				
	oral	LD50 600 mg/kg	Rat	REACH Registration	OECD 401
18138-05-1	NATURAL 3,5-DIETHYL-2-METHYLPYRAZINE				
	oral	ATE 500 mg/kg			
32736-91-7	NATURAL 2,5-DIETHYL-3-METHYLPYRAZINE				
	oral	ATE 500 mg/kg			

#### **Irritation and corrosivity**

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

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**Sensitizing effects**

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

**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): No ingredient of this mixture is listed.

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**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****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.

**14. Transport information****U.S. DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

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#### Marine transport (IMDG)

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

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

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

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

No information available.

#### 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:

NATURAL 2-ETHYL-3,6-DIMETHYLPYRAZINE (13360-65-1): Immediate (acute) health hazard  
 NATURAL 2-ETHYL-6-METHYL PYRAZINE (13925-03-6): Immediate (acute) health hazard  
 NATURAL 2-ETHYL-5-METHYLPYRAZINE (13360-64-0): Immediate (acute) health hazard  
 NATURAL 2-ETHYL-3,5-DIMETHYLPYRAZINE (13925-07-0): Immediate (acute) health hazard  
 NATURAL 2,3,5-TRIMETHYLPYRAZINE (14667-55-1): Immediate (acute) health hazard  
 NATURAL 2,5-DIMETHYLPYRAZINE (123-32-0): Fire hazard, Immediate (acute) health hazard  
 NATURAL 2-ETHYL-3-METHYLPYRAZINE (15707-23-0): Fire hazard, Immediate (acute) health hazard  
 NATURAL 3,5-DIETHYL-2-METHYLPYRAZINE (18138-05-1): Immediate (acute) health hazard  
 NATURAL 2,5-DIETHYL-3-METHYLPYRAZINE (32736-91-7): Immediate (acute) health hazard

#### State Regulations

##### 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

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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

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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.)*