

according to Regulation (EC) No 1907/2006

NATURAL PYRAZINES 10

Revision date: 11.01.2024

Product code: 314910

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

1.1. Product identifier

NATURAL PYRAZINES 10

UFI:

8F44-JWJ2-200V-3QFU

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	

1.4. Emergency telepho

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

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

Signal word:

Pictograms:



Warning

Hazard statements

H302

Harmful if swallowed.

Precautionary statements

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container to organic waste.



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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
13360-65-1	NATURAL 2-ETHYL-3,6-DIMETHY	(LPYRAZINE		21 - 25 %
	236-417-1			
	Acute Tox. 4; H302			
13925-03-6	NATURAL 2-ETHYL-6-METHYL P	YRAZINE		20 - 24 %
	237-692-0			
	Acute Tox. 4; H302			
13360-64-0	NATURAL 2-ETHYL-5-METHYLPY	/RAZINE		14 - 17 %
	236-416-6			
	Acute Tox. 4; H302	-		
15707-34-3	NATURAL 2-ETHYL-5,6-DIMETHY	(LPYRAZINE		9 - 12 %
	639-047-2			
	Acute Tox. 4; H302			
13925-07-0	NATURAL 2-ETHYL-3,5-DIMETHY	(LPYRAZINE		6 - 9 %
	237-694-1			
	Acute Tox. 4; H302	•	•	
14667-55-1	NATURAL 2,3,5-TRIMETHYLPYR/	AZINE		5 - 8 %
	238-712-0			
	Acute Tox. 4; H302			
123-32-0	NATURAL 2,5-DIMETHYLPYRAZI	NE		4 - 7 %
	204-618-3			
	Flam. Liq. 3, Acute Tox. 4; H226 H	302		
15707-23-0	NATURAL 2-ETHYL-3-METHYLPY	2 - 5 %		
	239-799-8			
	Acute Tox. 4; H302			
18138-04-0	NATURAL 2,3-DIETHYL-5-METHY	LPYRAZINE^		0 - 2 %
	242-024-6			
32736-91-7	NATURAL 2,5-DIETHYL-3-METHY	(LPYRAZINE		0 - 2 %
	Acute Tox. 4; H302			
18138-05-1	NATRUAL 3,5-DIETHYL-2-METHY	(LPYRAZINE		0 - 2 %
	Acute Tox. 4; H302			

Full text of H and EUH statements: see section 16.



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Quantity

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name

CAS No	EC No	Chemical name	Quantity
	Specific Con	nc. Limits, M-factors and ATE	
13360-65-1	236-417-1	NATURAL 2-ETHYL-3,6-DIMETHYLPYRAZINE	21 - 25 %
	oral: LD50 =	= 456 mg/kg	
13925-03-6	237-692-0	NATURAL 2-ETHYL-6-METHYL PYRAZINE	20 - 24 %
	oral: ATE =	500 mg/kg	
13360-64-0	236-416-6	NATURAL 2-ETHYL-5-METHYLPYRAZINE	14 - 17 %
	oral: LD50 =	= 900 mg/kg	
15707-34-3	639-047-2	NATURAL 2-ETHYL-5,6-DIMETHYLPYRAZINE	9 - 12 %
	oral: ATE =	500 mg/kg	
13925-07-0	237-694-1	NATURAL 2-ETHYL-3,5-DIMETHYLPYRAZINE	6 - 9 %
	oral: LD50 =	= 456 mg/kg	
14667-55-1	238-712-0	NATURAL 2,3,5-TRIMETHYLPYRAZINE	5 - 8 %
	oral: LD50 =	= 806 mg/kg	
123-32-0	204-618-3	NATURAL 2,5-DIMETHYLPYRAZINE	4 - 7 %
	oral: LD50 =	= 1020 mg/kg	
15707-23-0	239-799-8	NATURAL 2-ETHYL-3-METHYLPYRAZINE	2 - 5 %
	oral: LD50 =	= 600 mg/kg	
32736-91-7		NATURAL 2,5-DIETHYL-3-METHYLPYRAZINE	0 - 2 %
	oral: ATE =	500 mg/kg	
18138-05-1		NATRUAL 3,5-DIETHYL-2-METHYLPYRAZINE	0 - 2 %
	oral: ATE =	500 mg/kg	

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.

After ingestion

Rinse mouth immediately and drink 1 glass of 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

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.



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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

Provide adequate ventilation. 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 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

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

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.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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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		~180 °C
	boiling range:		
	Flammability:		not applicable
			not applicable not determined
	Lower explosion limits:		
	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
	Vapour pressure:		not determined
	Density (at 20 °C):		0,97 g/cm ³
	Relative vapour density:		not determined
9.	2. Other information		
	Information with regard to physical haz	zard classes	
	Explosive properties		
	not explosive according to EU A.14		
	Oxidizing properties		
	The product is not: oxidising.		
	Other safety characteristics		
	Evaporation rate:		not determined
	Solid content:		not determined



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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

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 640,7 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
13360-65-1	NATURAL 2-ETHYL	-3,6-DIMETHY	LPYRAZINE			
	oral	LD50 mg/kg	456	Rat		
13925-03-6	NATURAL 2-ETHYL	-6-METHYL PY	(RAZINE			
	oral	ATE mg/kg	500			
13360-64-0	NATURAL 2-ETHYL	-5-METHYLPY	RAZINE			
	oral	LD50 mg/kg	900	Rat	Drug and Chemical Toxicology. 1980	
15707-34-3	NATURAL 2-ETHYL	-5,6-DIMETHY	LPYRAZINE			
	oral	ATE mg/kg	500			
13925-07-0	NATURAL 2-ETHYL	-3,5-DIMETHY	LPYRAZINE			
	oral	LD50 mg/kg	456	Rat		
14667-55-1	NATURAL 2,3,5-TRI	METHYLPYRA	ZINE			
	oral	LD50 mg/kg	806	Rat	Drug and Chemical Toxicology. 1980	
123-32-0	NATURAL 2,5-DIME	THYLPYRAZI	NE			
	oral	LD50 mg/kg	1020	Rat	TheGoodScentCompa ny	a
15707-23-0	NATURAL 2-ETHYL	-3-METHYLPY	RAZINE			
	oral	LD50 mg/kg	600	Rat	REACH Registration	OECD 401
32736-91-7	NATURAL 2,5-DIETH	HYL-3-METHY	LPYRAZINE			
	oral	ATE mg/kg	500			
18138-05-1	NATRUAL 3,5-DIETH	HYL-2-METHY	LPYRAZINE			
	oral	ATE mg/kg	500			

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



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Endocrine disrupting properties

No information available.

Further 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.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
14667-55-1	NATURAL 2,3,5-TRIMETHYLPYRAZINE		INE			-	
	Acute algae toxicity	ErC50 mg/l	82,63	96 h	Green algae	Danish QSAR Database	
15707-23-0	NATURAL 2-ETHYL-3-ME		AZINE	1	-		
15707-23-0	NATURAL 2-ETHYL-3-MI Acute algae toxicity		AZINE >100		Pseudokirchneriella subcapitata	REACH Registration	OECD 201

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
15707-23-0	NATURAL 2-ETHYL-3-METHYLPYRAZINE			
15/07-23-0				
10707-23-0		7%	28	REACH Registration

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
13360-65-1	NATURAL 2-ETHYL-3,6-DIMETHYLPYRAZINE	2,07
13925-03-6	NATURAL 2-ETHYL-6-METHYL PYRAZINE	1,2
13360-64-0	NATURAL 2-ETHYL-5-METHYLPYRAZINE	1,2
15707-34-3	NATURAL 2-ETHYL-5,6-DIMETHYLPYRAZINE	1,46
13925-07-0	NATURAL 2-ETHYL-3,5-DIMETHYLPYRAZINE	1,457
14667-55-1	NATURAL 2,3,5-TRIMETHYLPYRAZINE	0,95
123-32-0	NATURAL 2,5-DIMETHYLPYRAZINE	0,63
15707-23-0	NATURAL 2-ETHYL-3-METHYLPYRAZINE	1,42
18138-04-0	NATURAL 2,3-DIETHYL-5-METHYLPYRAZINE^	1,95
32736-91-7	NATURAL 2,5-DIETHYL-3-METHYLPYRAZINE	1,966
18138-05-1	NATRUAL 3,5-DIETHYL-2-METHYLPYRAZINE	1,966

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.



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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.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS:

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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No

	EU regulatory information	
	Restrictions on use (REACH, annex XVII):	
	Entry 3, Entry 40	
	Directive 2010/75/EU on industrial emissions:	83 % (805,1 g/l)
	Directive 2004/42/EC on VOC in paints and varnishes:	100 % (970 g/l)
	Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
	National regulatory information	
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
	Water hazard class (D):	3 - highly hazardous to water
15	5.2. Chemical safety assessment	

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

1

This data sheet contains changes from the previous version in section(s): 1,5,6,7,9,10,11,14,15,16.



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Abbreviations and acronyms Flam. Liq: Flammable liquid Acute Tox: Acute toxicity 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 DNFL: Derived No Effect Level DMFL: 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: verv persistent, verv 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). Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP] Classification Classification procedure Acute Tox. 4; H302 Calculation method

Relevant H and EUH statements (number and full text)

H226Flammable liquid and vapour.H302Harmful if swallowed.

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.)