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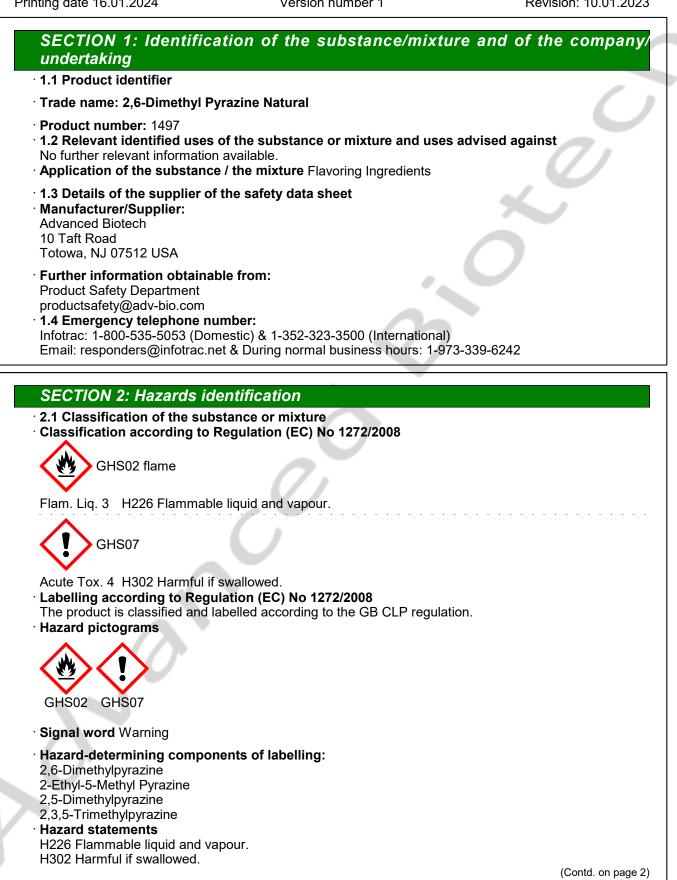


Printing date 16.01.2024

Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 10.01.2023



Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 10.01.2023

Trade name: 2,6-Dimethyl Pyrazine Natural

Printing date 16.01.2024

(Contd. of page 1) · Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. P210 No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. 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 in accordance with local/regional/national/international regulations. · 2.3 Other hazards Results of PBT and vPvB assessment

• **PBT:** Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

≥50-≤100%
≥2.5-≤10%
≥0-≤10%
≥0-≤10%
≥0-≤2.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Call for a doctor immediately.

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- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** No special requirements. Please refer to the product specification and/or Certificate of Analysis for product storage requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as a basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chem	nical properties	
• 9.1 Information on basic physical and	chemical properties	
 General Information 		
 Physical state 	Fluid	
· Colour:	According to product specification	
· Odour:	According to product specification	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Undetermined.	
		(Contd. on page 5



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Boiling point or initial boiling point and boiling		
range	Undetermined.	
Flammability	Flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Jpper:	Not determined.	
Flash point:	51 °C	
Decomposition temperature:	Not determined.	
рН	Not determined.	
/iscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)		
/apour pressure:	Not determined.	
Density and/or relative density		
Density:	Not determined.	
Relative density	Not determined.	
Refractive Index		
/apour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Slurry, solid (may solidify at low temperatures, car be reconstituted by melting for several hours at <60°C)	
mportant information on protection of health		
and environment, and on safety.		
gnition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of	
	explosive air/vapour mixtures are possible.	
Solvent content:		
VOC (EC)	0.00 %	
Solids content:	90-95 %	
Change in condition		
Evaporation rate	Not determined.	
nformation with regard to physical hazard	1	
classes		
Explosives	Void	
Explosives Flammable gases	Void	
Aerosols	Vold Void	
	Void Void	
Dxidising gases		
Gases under pressure	Void	
lammable liquids	Flammable liquid and vapour.	
	Void	
Self-reactive substances and mixtures	Void	
Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void	



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 Self-heating substances and mixtures Substances and mixtures, which emit 	Void	
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

· Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 849-937 mg/kg (ATE)

Dermal LD50 22,500-45,000 mg/kg (rat)

CAS: 108-50-9 2,6-Dimethylpyrazine

Oral LD50 880 mg/kg (ATE)

880 mg/kg (rat)

CAS: 13360-64-0 2-Ethyl-5-Methyl Pyrazine

Oral LD50 900 mg/kg (ATE)

900 mg/kg (rat)

Dermal LD50 900 mg/kg (rat)

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

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.

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Trade name: 2,6-Dimethyl Pyrazine Natural

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information · 14.1 UN number or ID number · ADR, IMDG, IATA UN1993 14.2 UN proper shipping name · ADR 1993 FLAMMABLE LIQUID, N.O.S. (2,6-Dimethylpyrazine) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (2,6-Dimethylpyrazine) · 14.3 Transport hazard class(es) · ADR Class 3 (F1) Flammable liquids. (Contd. on page 8) GB



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• Label 3 • IMDG, IATA 3 • Class 3 Flammable liquids. • Label 3

· 14.4 Packing group · ADR, IMDG, IATA	
· 14.5 Environmental hazards:	Not applicable.
 • 14.6 Special precautions for user • Hazard identification number (Kemler code • EMS Number: • Stowage Category 	Warning: Flammable liquids. a): 30 F-E, <u>S-E</u> A
 14.7 Maritime transport in bulk according t IMO instruments 	Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (2,6- DIMETHYLPYRAZINE), 3, III

SECTION 15: Regulatory information

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

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

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Trade name: 2,6-Dimethyl Pyrazine Natural

Reportable explosives precursors None of the ingredients is listed. Reportable poisons None of the ingredients is listed. Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms Image: Signal word Warning Hazard-determining components of labelling: 2.6-Dimethylpyrazine 2.5-Dimethylpyrazine 2.3.5-Timethylpyrazine 2.3.5-Timethylpyrazine 2.3.5-Timethylpyrazine Precautionary statements P426 Flammable liquid and vapour. H302 Harmful if swallowed. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sour No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P280 Wear protective gloves/protective clothing/eye protection/face protection/heat protection. P303+P261+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin water for shower]. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/internati regulations. Bveveo category	Poportable ovr	(Contd. of pag
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Printing date 16.01.2024

Version number 1

Revision: 10.01.2023

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Trade name: 2,6-Dimethyl Pyrazine Natural

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H319 Causes serious eye irritation.

· Department issuing SDS: Product safety department

 Contact: Product Safety Department productsafety@adv-bio.com

Date of previous version: 12.01.2021

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 4: Acute toxicity Category 4 Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2