

Printing date 01/16/2024

Reviewed on 01/10/2023

1 Identification

- · Product identifier
- [•] Trade name: 2,5(6)-Dimethyl Pyrazine Natural
- · Product number: 1718
- · Application of the substance / the mixture Flavoring Ingredients
- · Details of the supplier of the safety data sheet

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

- Manufacturer/Supplier: Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA
- Information department: Product Safety Department productsafety@adv-bio.com
- Emergency telephone number: Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International) Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



(Continued on page 2)

US



Printing date 01/16/2024

Reviewed on 01/10/2023

 Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face protection. Store in a skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Health = 1 Fire = 2 		(Continuation of pa	age 1)
 2.5-Dimethylpyrazine (8-Dimethylpyrazine Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Heatth = 1 Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Fire = 2 Fire = 2 Fire = 2 Fire = 2 Fire = 2 Fire = 2	Hazard-determ	nining components of labeling:	2
 2.6-Dimethylpyrazine Hazard statements 1226 Flammable liquid and vapor. 1302 Harmful if swallowed. Precautionary statements 210 Keep away from heat/sparks/open flames/hot surfaces No smoking. 2241 Use explosion-proof electrical/ventilating/lighting/equipment. 280 Wear protective gloves/protective clothing/eye protection/face protection. 203+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 2403+P235 Store in a well-ventilated place. Keep cool. 2501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Dispose of PBT and vPvB assessment PBT: Not applicable. 			
 Hammable liquid and vapor. Keep away from heat/sparks/open flames/hot surfaces No smoking. Les explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face protection. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: WFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Presenting (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Chast and vPvB assessment PBT: Not applicable. 			
 Harmful if swallowed. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: WFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 	lazard statem	ents	
Precautionary statements 2210 Keep away from heat/sparks/open flames/hot surfaces No smoking. 2241 Use explosion-proof electrical/ventilating/lighting/equipment. 2280 Wear protective gloves/protective clothing/eye protection/face protection. 2303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 2403+P235 Store in a well-ventilated place. Keep cool. 2501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2100 Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HEALTH Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. PBT: Not applicable.			
 Keep away from heat/sparks/open flames/hot surfaces No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P403+P235 Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 			
 Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face protection. 2303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 2403+P235 Store in a well-ventilated place. Keep cool. 2501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: VFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 			
 Wear protective gloves/protective clothing/eye protection/face protection. 2303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Reactivity = 0 Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 	P210		
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P403+P235 Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 PHEALTH 1 Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 			
water/shower. P403+P235 Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Fire = 2 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.			
2403+P235 Store in a well-ventilated place. Keep cool. 2501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) 1 1 2 <t< td=""><td>-303+P361+P3</td><td></td><td>with</td></t<>	-303+P361+P3		with
Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.	2402+0225		
regulations. Classification system: NFPA ratings (scale 0 - 4) $1 \xrightarrow{2} 0$ Health = 1 Fire = 2 Reactivity = 0 HIIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 REACTIVITY 0 Health = 1 Fire = 2 Reactivity = 0 Chter hazards Results of PBT and vPvB assessment PBT: Not applicable.			lional
Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HIIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 REACTIVITY 0 Health = 1 Fire = 2 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	501		lionai
WFPA ratings (scale 0 - 4) Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 Reactivity = 0 Dther hazards Results of PBT and vPvB assessment PBT: Not applicable.	Classification		
Health = 1 Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 REACTIVITY 0 Health = 1 Fire = 2 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.			
Fire = 2 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 REACTIVITY 0 Health = 1 Fire = 2 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.			
1 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 2 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.			
HIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 FIRE 2 REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.			
HEALTH 1 FIRE 2 FIRE 2 REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	Re	eactivity = 0	
HEALTH 1 FIRE 2 FIRE 2 REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	-MIS_ratings (scale () - ()	
FIRE 2 FIRE 2 FIRE 2 REACTIVITY O Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	. .		
REACTIVITY Reactivity = 0 Results of PBT and vPvB assessment PBT: Not applicable.	HEALTH 1 H	lealth = 1	
Dther hazards Results of PBT and vPvB assessment PBT: Not applicable.			
Results of PBT and vPvB assessment PBT: Not applicable.	REACTIVITY 0 R	<pre>keactivity = 0</pre>	
Results of PBT and vPvB assessment PBT: Not applicable.	Other hererde		
PBT: Not applicable.			
	FVD. Not appli	icable.	

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 123-32-0	2,5-Dimethylpyrazine	≥50-≤100%
EINECS: 204-618-3	Oral 4, H302; Flammable Liquids 4, H227	
	2,6-Dimethylpyrazine	≥10-≤50%
EINECS: 203-589-4	🚸 Flammable Liquids 3, H226; 🚸 Acute Toxicity - Oral 4, H302	

4 First-aid measures

· 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.

(Continued on page 3)



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

(Continuation of page 2)

- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · 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.

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

• Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• 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.

- · 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.
- Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

PAC-3:

None of the ingredients is listed.

7 Handling and storage

· Handling:

• Precautions for safe handling No special precautions are necessary if used correctly.

(Continued on page 4)



Printing date 01/16/2024

Reviewed on 01/10/2023

(Continuation of page 3)

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 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 receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components 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 that were valid during the creation were used as a basis.
- · Exposure controls
- 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.
- Breathing equipment: Not required.
- Protection of hands:



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.

(Continued on page 5)



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

Eye protection:
 Tightly sealed goggles
 9 Physical and chemical properties
 Information on basic physical and chemical properties

 General Information Appearance: 	
Form:	Liquid
Color:	According to product specification
Odor:	According to product specification
· Odor threshold:	Not determined.
· pH-value:	Not determined.
[·] Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	53.1 °C (127.6 °F)
[.] Flammability (solid, gaseous):	Flammable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.955-1.045 g/cm³ (7.96948-8.72053 lbs/gal)
Specific Gravity	0.955-1.045 @ 20 °C (33.7-33.9 @ 68 °F)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

		(Continuation of page 5)
 Solvent content: VOC content: 	0.00 % 0.0 g/l / 0.00 lb/gal	\mathcal{O}
Solids content:	10-30 %	1
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 817-1,250 mg/kg (ATE)

CAS: 123-32-0 2,5-Dimethylpyrazine

Oral LD50 1,020 mg/kg (ATE)

1,020 mg/kg (rat)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information: Harmful

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

(Continued on page 7)

ÚS



Printing date 01/16/2024

Reviewed on 01/10/2023

(Continuation of page 6)

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

- **Persistence and degradability** No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (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.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name	
DOT	Flammable liquids, n.o.s. (2,6-Dimethylpyrazine, 2,
· IMDG, IATA	Dimethylpyrazine) FLAMMABLE LIQUID, N.O.S. (2,6-Dimethylpyrazine)
· Transport hazard class(es)	
· DOT · Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids



Printing date 01/16/2024

Reviewed on 01/10/2023

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

	(Continuation of page
Label	3
Packing group	
DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	30
EMS Number:	F-E, <u>S-E</u>
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	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

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Continued on page 9)



Printing date 01/16/2024

Reviewed on 01/10/2023

(Continuation of page 8)

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

2,5-Dimethylpyrazine

2,6-Dimethylpyrazine • Hazard statements

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

· Precautionary statements

· Precautionary sta	atements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Chemical safety a	assessment: A Chemical Safety Assessment has not been carried out.

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 vapor.

H227 Combustible liquid.

H302 Harmful if swallowed.

• Department issuing SDS: Product Safety Department

(Continued on page 10)



Printing date 01/16/2024

NV N Reviewed on 01/10/2023

Trade name: 2,5(6)-Dimethyl Pyrazine Natural

• • •	(Continuation of page 9)
Contact:	
Product Safety Department	
productsafety@adv-bio.com	
Date of preparation / last revision 01/16/2024	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchar International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Cherr ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	
Flammable Liquids 3: Flammable liquids – Category 3	
Flammable Liquids 4: Flammable liquids – Category 4	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
2	