

Printing date 31.12.2024

Version number 1

Revision: 31.12.2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Trade name: (E,Z),2,6-NONADIENAL 50% ETOH NATURAL · Product number: 1948 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Flavoring Ingredients 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Advanced Biotech 10 Taft Road Totowa, NJ 07512 USA · Further information obtainable from: **Product Safety Department** productsafety@adv-bio.com 1.4 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 SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS07 H319 Causes serious eye irritation. Eve Irrit. 2 Skin Sens. 1 H317 May cause an allergic skin reaction. Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: 2.6-Nonadienal Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. (Contd. on page 2) GB

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Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
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 hazard	s
. Beaulte of DPT a	und vPvP appagament

• 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.

· Dangerous components:

	Bungerous compor				
	CAS: 64-17-5	Ethanol		Eye Irrit. 2, H319	25-50%
	EINECS: 200-578-6				
	CAS: 557-48-2	2,6-Nonadienal		Skin Sens. 1B, H317	25-50%
	EINECS: 209-178-6			· ,	
-					

• 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.
- · After inhalation:

Supply fresh air and be sure to call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · 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.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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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: Dilute with plenty of water.

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 Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 64-17-5 Ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

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.

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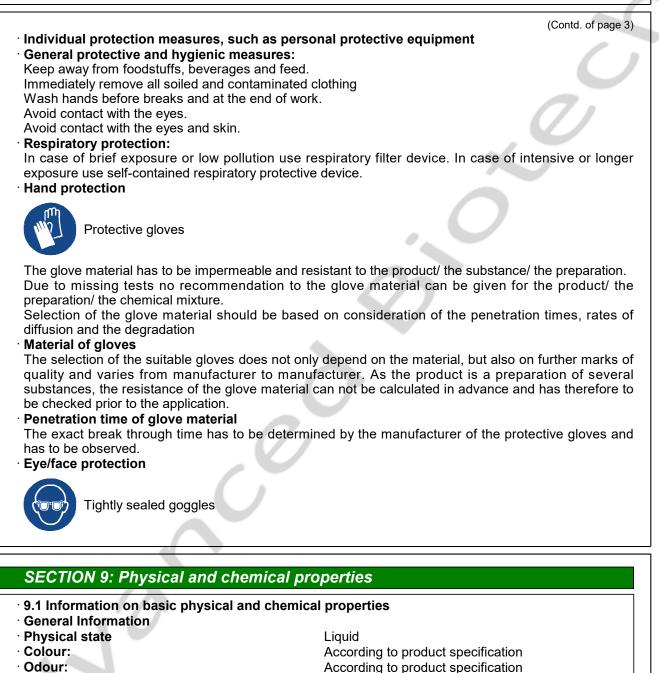


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Not determined.

Undetermined.

Undetermined.

15.2 °C

Highly flammable.

3.5 Vol % (CAS: 64-17-5 Ethanol) 15 Vol % (CAS: 64-17-5 Ethanol)

- Odour:
 Odour threshold:
- · Melting point/freezing point:
- · Boiling point or initial boiling point and boiling
- range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- Flash point:

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Auto-ignition temperature:	425 °C (CAS: 64-17-5 Ethanol)
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log va	llue) Not determined.
Vapour pressure at 20 °C:	59 hPa (CAS: 64-17-5 Ethanol)
Vapour pressure at 50 °C:	280 hPa
Density and/or relative density	
Density at 20 °C:	0.83-0.85 g/cm³
Relative density	Not determined.
Refractive Index	
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of he	
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	50.0 %
VÕČ (EC)	50.00 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
· Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

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

· LD/LC50 values relevant for classification:

CAS: 64-17-5 Ethanol

Oral LD50 7,060 mg/kg (rat) Inhalative LC50/4 h 20,000 mg/l (rat)

Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 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

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.

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· 12.7 Other adverse effects · Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
 14.1 UN number or ID number ADR, IMDG, IATA 	UN1170	
· 14.2 UN proper shipping name · ADR	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
·IMDG	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
	ETHANOL SOLUTION	
· 14.3 Transport hazard class(es)		
ADR		
· Class · Label	3 (F1) Flammable liquids. 3	
· IMDG, IATA		
· Class · Label	3 Flammable liquids. 3	
 14.4 Packing group ADR, IMDG, IATA 	II	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Warning: Flammable liquids.	
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Hazard identification number (Kemle EMS Number:	r code): 33 F-E,S-D
Stowage Category	A
14.7 Maritime transport in bulk accor	
IMO instruments	Not applicable.
· Transport/Additional information:	
ADR	× ,
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
[•] Tunnel restriction code	D/E
· IMDG	11
· Limited quantities (LQ)	
 Excepted quantities (EQ) 	Code: E2 Maximum pet quantity per inper peakeging: 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

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.

· 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



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 Hazard-determining components of labelling: 2,6-Nonadienal Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other is No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. 	(Contd. of page 8	
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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.	Rinse skin wit	
water [or shower].		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Re lenses, if present and easy to do. Continue rinsing.	emove contac	
P403+P235 Store in a well-ventilated place. Keep cool.		
P501 Dispose of contents/container in accordance with local/regional/nation	nal/internationa	
regulations.		
· Directive 2012/18/EU		
• Named dangerous substances - ANNEX I None of the ingredients is listed.		
• Seveso category P5c FLAMMABLE LIQUIDS		
• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t		
• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3		
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous s		
electrical and electronic equipment – Annex II	ubstances II	
None of the ingredients is listed.		
· REGULATION (EU) 2019/1148		
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for th	ne purpose o	
licensing under Article 5(3))		
None of the ingredients is listed.		
Annex II - REPORTABLE EXPLOSIVES PRECURSORS		
None of the ingredients is listed.		
· 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 carrie	ed 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

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

· Department issuing SDS: Product safety department



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Contact:	
Product Safety Department	
productsafety@adv-bio.com	
Date of previous version: 13.08.2024	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandise	s dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)	5 1 (1 5 5
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labellin	g 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 Cher	nical 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	
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1B: Skin sensitisation – Category 1B	
	CB -