

Printing date 01/16/2024

Reviewed on 01/10/2023

1 Identification

- Product identifier
- · Trade name: Ethyl Heptoate natural
- · Product number: 1178
- CAS Number: 106-30-9
- · EC number:
- 203-382-9
- · Application of the substance / the mixture Flavoring Ingredients
- · Details of the supplier of the safety data sheet

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- 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

Flammable Liquids 4 H227 Combustible liquid.

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

- · Hazard pictograms Not Applicable
- · Signal word Warning
- · Hazard statements
- H227 Combustible liquid.
- · Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

- P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

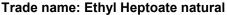
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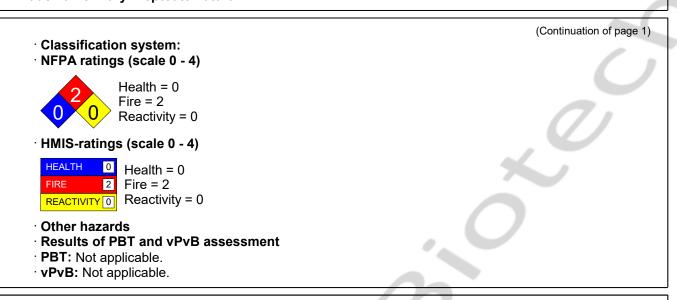
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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 106-30-9 Ethyl heptoate
- Identification number(s)
- EC number: 203-382-9

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult 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.

- Special nazards arising from the substance or m
 Advice for fireficienters
 - Advice for firefighters
 - · Protective equipment: No special measures required.
 - Additional information

Cool endangered receptacles with water spray.

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(Continuation of page 2) 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: 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: Substance is not listed. · PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- · 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: Not required.
- 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: Wash hands before breaks and at the end of work.

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· 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.

• 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 protection: Goggles recommended during refilling.

Information on basic physical and		
General Information	Molecular Weight: 158.24 g/mol	
Appearance:		
Form:	Liquid	
Color: Odor:	According to product specification According to product specification	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
	Hot dotorminod.	
Change in condition Melting point/Melting range:	-66 °C (-86.8 °F)	
Boiling point/Boiling range:	-66 C (-86.8 F) 189 °C (372.2 °F)	
Flash point:	70.5 °C (158.9 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.87 g/cm³ (7.26015 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	



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Evaporation rate	Not determined.	/
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octano	I/water): Not determined.	$\overline{}$
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
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:

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Oral LD50 >34,640 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

Primary irritant effect:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

• NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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 (Assessment by list): 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.

UN-Number DOT, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.s. (Et heptoate)
IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Ethyl heptoate)
Transport hazard class(es)	
DOT, IMDG	
A	
Class	9 Miscellaneous dangerous substances and articles



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Label	9
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	Ũ
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group DOT, IMDG, IATA	
Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Stowage Category	A
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.
Transport/Additional information:	
рот	
Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
MDG	
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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYL HEPTOATE), 9, III

15 Regulatory information • Safety, health and environmental regulations/legislation specific for the substance or mixture • Sara • Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

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Hazardous	Air Pollutants
Substance i	
Proposition	
•	known to cause cancer:
Substance i	
Chemicals	known to cause reproductive toxicity for females:
Substance i	s not listed.
Chemicals	known to cause reproductive toxicity for males:
Substance i	s not listed.
Chemicals	known to cause developmental toxicity:
Substance i	s not listed.
Carcinoger	nic categories
EPA (Envir	onmental Protection Agency)
Substance i	s not listed.
TLV (Thres	hold Limit Value)
Substance i	s not listed.
NIOSH-Ca ((National Institute for Occupational Safety and Health)
Substance i	s not listed.
symbol on a The substar Hazard pict Signal word Hazard stat H227 Comb Precaution P210 P280 P370+P378 P403+P235 P501	
Other inf	ormation
	ation is based on our present knowledge. However, this shall not constitute a guarantee for product features and shall not establish a legally valid contractual relationship.
Departmen	t issuing SDS: Product Safety Department

• Date of preparation / last revision 01/16/2024

• **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)

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IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) 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 4: Flammable liquids - Category 4