

Printing date 01/16/2024

Reviewed on 12/05/2023

1 Identification

· Product identifier

- [•] Trade name: Ethyl Acrylate 1% in Ethyl Propionate natural
- · Product number: 1286
- · 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

GHS02 Flame

Flammable Liquids 2



Skin Irritation 2

Eye Irritation 2A

Sensitization - Skin 1

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. **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).

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Trade name: Ethyl Acrylate 1% in Ethyl Propionate natural (Continuation of page 1) · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: Ethyl propionate Ethyl acrylate · Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE Fire = 33 Reactivity = 0 REACTIVITY 0 · Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

· Chemical character		
• Description: Mixture	of the substances listed below with nonhazardous additions.	
 Dangerous compor 	ients:	
	Ethyl propionate Flammable Liquids 2, H225; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335	_ 50-100%



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Trade name: Ethyl Acrylate 1% in Ethyl Propionate natural

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CAS: 140-88-5	Ethyl acrylate	≥1-≤2.5%
	 Flammable Liquids 2, H225; Acute Toxicity - Inhalation 3, H331; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1B H317; Specific Target Organ Toxicity - Single Exposure 3, H335 	

4 First-aid measures

- · 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.
- · 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. **For safety reasons unsuitable extinguishing agents:** Water with full jet

- · 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: 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.

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Protective Action Criteria for Chemicals	(Continuation of page
PAC-1:	
CAS: 105-37-3 Ethyl propionate	6.3 ppm
CAS: 140-88-5 Ethyl acrylate	8.3 ppm
PAC-2:	
CAS: 105-37-3 Ethyl propionate	69 ppm
CAS: 140-88-5 Ethyl acrylate	36 ppm
PAC-3:	
CAS: 105-37-3 Ethyl propionate	410 ppm
CAS: 140-88-5 Ethyl acrylate	240 ppm

7 Handling and storage

· Handling:

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

Store in cool, dry conditions in well sealed receptacles.

• 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 140-88-5 Ethyl acrylate

- PEL Long-term value: 100 mg/m³, 25 ppm
- Skin
- REL See Pocket Guide App. A
- TLV Short-term value: 15 ppm
 - Long-term value: 5 ppm

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· Additional information: The lists that were valid during the creation were used as a basis.

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(Continuation of page 4) · 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. Avoid contact with the eyes. Avoid contact with the eyes and skin. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. 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 guality 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 protection: Tightly sealed goggles 9 Physical and chemical properties

 Information on basic physical an 	d chemical properties	
General Information	Molecular Weight: 102.13 g/mol	
· 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:	-74 °C (-101.2 °F)	
Boiling point/Boiling range:	Undetermined.	
		(Continued on page 6



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Flash point:	12.2 °C (54 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	475 °C (887 °F)
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: Upper:	1.8 Vol % 11 Vol %
Vapor pressure at 20 °C (68 °F):	36 hPa (27 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.885-0.9 g/cm³ (7.38533-7.5105 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	22 g/l
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: VOC content:	1.0 % 1.00 % 8.9-9 g/l / 0.07-0.08 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.

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		icological effects
Acute tox	•	
		at are relevant for classification:
-		y Estimate)
Oral	LD50	80,000 mg/kg
Dermal	LD50	110,000 mg/kg (ATE)
Inhalative	LC50/4 h	900 mg/l (ATE)
CAS: 105	-37-3 Ethy	/I propionate
Oral	LD50	3,500 mg/kg (rabbit)
on the sk on the ey Sensitizat Additiona	e: Irritating tion: Sens Il toxicolo	ant effect. g effect. sitization possible through skin contact. gical information:
on the sk on the ey Sensitizat Additiona The produ preparatio Irritant Carcinogo	in: No irrita e: Irritating tion: Sens Il toxicolo uct shows ns: enic categ	ant effect. g effect. sitization possible through skin contact. g gical information: the following dangers according to internally approved calculation methods g ories
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on the sk on the ey Sensitizat Additiona The produ preparatio Irritant Carcinoge IARC (Inte CAS: 140- NTP (Nati None of th	in: No irrita e: Irritating tion: Sens Il toxicolo uct shows ns: enic categ ernational 88-5 Ethy onal Toxi ie ingredie	ant effect. g effect. sitization possible through skin contact. ogical information: the following dangers according to internally approved calculation methods gories I Agency for Research on Cancer) yl acrylate

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 2 (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.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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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	UN1195
UN proper shipping name DOT IMDG, IATA	Ethyl propionate ETHYL PROPIONATE
Transport hazard class(es)	
DOT	
	Ò
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids
Packing group DOT, IMDG, IATA	" "
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids 33 F-E,S-D B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
 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
· UN "Model Regulation":	UN 1195 ETHYL PROPIONATE, 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 140-88-5 Ethyl acrylate

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 140-88-5 Ethyl acrylate

· Proposition 65

· Chemicals known to cause cancer:

CAS: 140-88-5 Ethyl acrylate

· 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.

· 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)

CAS: 140-88-5 Ethyl acrylate

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

CAS: 140-88-5 Ethyl acrylate

· 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.

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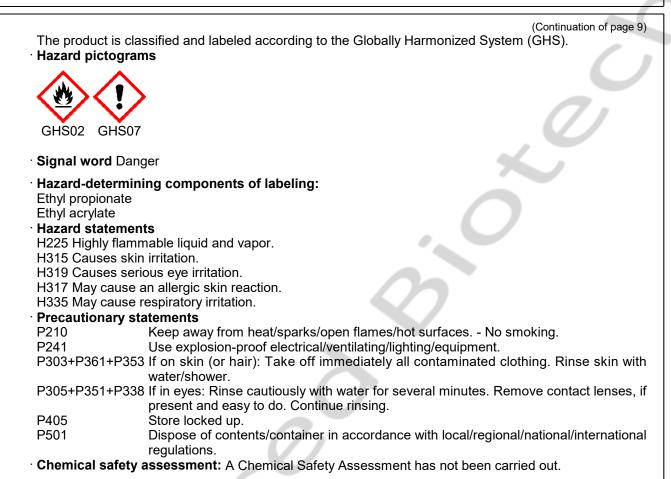


acc. to OSHA HCS (29 CFR § 1910.1200)

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Safety Data Sheet

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

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- · Department issuing SDS: Product Safety Department
- 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 marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation IATA: International Air Transport Association 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) 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	(Continuation of page 10)
OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2 Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single expo	sure) – Category 3