

Printing date 01/16/2024

Reviewed on 12/05/2023

1 Identification

- · Product identifier
- Trade name: Ethyl Acrylate 1% ETOH natural
- Product number: 1715
- · CAS Number: 140-88-5/64-17-15
- · EINECS Number: 205-438-8/200-78-6
- · 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 2 H225 Highly flammable liquid and vapor.



Eye Irritation 2A H319 Causes serious eye irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

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



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	ongor	(Continuation of page 1)
Signal word D	•	
	nining components of labeling:	
Ethyl acrylate	o	
Hazard statem		
	mmable liquid and vapor. erious eye irritation.	
	e an allergic skin reaction.	
Precautionary		
P210	Keep away from heat/sparks/open flames/hot s	urfaces, - No smoking,
P241	Use explosion-proof electrical/ventilating/lightin	
P303+P361+P3	353 If on skin (or hair): Take off immediately all co water/shower.	
P305+P351+P3	338 If in eyes: Rinse cautiously with water for sever present and easy to do. Continue rinsing.	al minutes. Remove contact lenses, if
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container in accordance w regulations.	ith local/regional/national/international
Classification	5	
NFPA ratings		
FIRE 3 F	F and vPvB assessment cable.	
	licable.	
Results of PB PBT: Not applie vPvB: Not app		
Results of PB PBT: Not applie vPvB: Not app Compositio	n/information on ingredients	
Results of PB PBT: Not applie vPvB: Not app <i>Compositio</i> Chemical char		rdous additions.
Results of PB ⁻ PBT: Not applie vPvB: Not app <i>Compositio</i> Chemical char Description: M	n/information on ingredients racterization: Mixtures lixture of the substances listed below with nonhaza	rdous additions.
Results of PB PBT: Not applie vPvB: Not app <i>Compositio</i> Chemical char	n/information on ingredients racterization: Mixtures lixture of the substances listed below with nonhaza mponents: Ethanol	50-100%
Results of PB PBT: Not applie vPvB: Not app Compositio Chemical char Description: M Dangerous co CAS: 64-17-5	n/information on ingredients racterization: Mixtures lixture of the substances listed below with nonhaza mponents: Ethanol 78-6 Tlammable Liquids 2, H225; ① Eye Irritat	50-100%

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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.

Protective Action Criteria for Chemicals

PAC-1:		
CAS: 64-17-5	Ethanol	1,800 ppm
CAS: 140-88-5	Ethyl acrylate	8.3 ppm
· PAC-2:		
CAS: 64-17-5	Ethanol	3300* ppm
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36 ppm

15000* ppm

240 ppm

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CAS: 140-88-5 Ethyl acrylate

· PAC-3:

CAS: 64-17-5 Ethanol

CAS: 140-88-5 Ethyl acrylate

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

Com	ponents with limit values that require monitoring at the workplace:
CAS	: 64-17-5 Ethanol
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm
	A3
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 A4
· Addi	tional information: The lists that were valid during the creation were used as a basis.
-	osure controls
	onal protective equipment: eral protective and hygienic measures:
	a way from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
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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 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 protection:



Tightly sealed goggles

Information on basic physical and	d chemical properties	
General Information	Molecular Weight: 46 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:	-114.5 °C (-174.1 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	16 °C (60.8 °F)	
Flammability (solid, gaseous):	Highly flammable.	
Auto igniting:	425 °C (797 °F)	



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· 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:	3.5 Vol % 15 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.805-0.825 g/cm³ (6.71773-6.88463 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water at 20 °C (68 °F): 	1,000 g/l
· Partition coefficient (n-octanol/wat	er): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	1.2 mPas Not determined.
 Solvent content: Organic solvents: VOC content: 	100.0 % 100.00 % 805-825 g/l / 6.72-6.88 lb/gal
Solids content:	0.0 %
· 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 80,000 mg/kg (rat)

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Dermal	LD50	110,000 mg/kg (ATE)	· · · · · ·
Inhalative	LC50/4 h	900 mg/l (ATE)	
CAS: 64-1	7-5 Ethan	nol	
Oral	LD50	7,060 mg/kg (rat)	
Inhalative	LC50/4 h	20,000 mg/l (rat)	
· Primary ir	ritant effe	ect:	
[.] on the ski			
· on the eye			
		itization possible through skin contact	
		gical information:	
		the following dangers according to	internally approved calculation methods for
preparatio Irritant	ns:		
Imani			
· Carcinoge	enic categ	jories	
· IARC (Inte	ernational	Agency for Research on Cancer)	
CAS: 64-1	7-5 Etha	anol	1
CAS: 140-	88-5 Ethy	/l acrylate	2B
• NTP (Natio	onal Toxi	cology Program)	
None of th	e ingredie	nts is listed.	
	• •	ional Safety & Health Administration	on)
None of th	e ingredie	nts is listed.	

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 (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.

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- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1170
UN proper shipping name	
DOT	Ethanol solutions
IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
1474	SOLUTION)
	ETHANOL SOLUTION
Transport hazard class(es)	
DOT	
3	
Class	2 Elammable liquide
Label	3 Flammable liquids 3
	·····
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
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: 5 L
	On cargo aircraft only: 60 L



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15 Regulatory information

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 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 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

$^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or n $^{\rm \cdot}$ Sara	nixture
· 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:	
CAS: 64-17-5 Ethanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
CAS: 64-17-5 Ethanol	A

CAS: 140-88-5 Ethyl acrylate

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

CAS: 140-88-5 Ethyl acrylate

GHS label elements

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

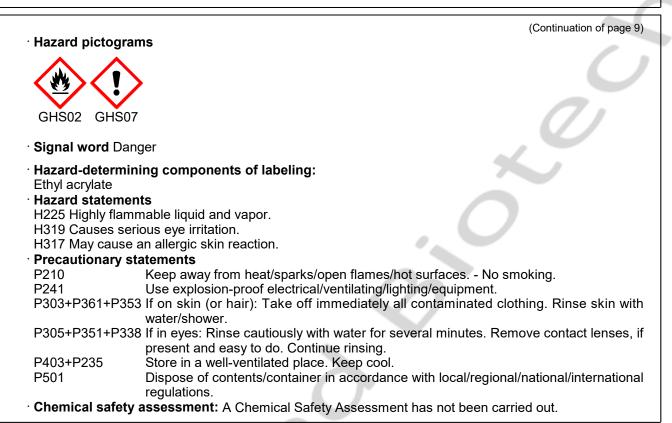
A4



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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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 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)

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NFPA: National Fire Protection Association (USA)	(10,
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 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 2A	
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 (si	ngle exposure) – Category 3
	US