

Date of issue: 04/17/2025

Reviewed on 04/17/2025

1 Identification

· Product identifier

- [•] Trade name: Fermentone 5% in ETOH natural
- · CAS Number: 23696-85-7/64-17-5
- · Other means of identification
- · Product number: 1662
- · EINECS Number: 245-833-2/200-578-6
- · 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.

GHS07

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).

(Continued on page 2)

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(Continuation of page 2)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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.
- 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.
- 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.

(Continued on page 4)



Date of issue: 04/17/2025

Reviewed on 04/17/2025

(Continuation of page 3)

1,800 ppm

3300* ppm

15000* ppm

Trade name: Fermentone 5% in ETOH natural

· Protective Action Criteria for Chemicals

· PAC-1:

CAS: 64-17-5 Ethanol

· PAC-2:

CAS: 64-17-5 Ethanol

· PAC-3:

CAS: 64-17-5 Ethanol

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.

7 Handling and storage

• **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

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: 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: 1880 mg/m³, 1000 ppm
- A3

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

Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

(Continued on page 5)

115



Date of issue: 04/17/2025

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

Reviewed on 04/17/2025

(Continuation of page 4)

Trade name: Fermentone 5% in ETOH natural

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 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

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Physical state Liquid · Color: According to product specification · Odor: According to product specification · Odor threshold: Not determined. · Melting point/Melting range: Undetermined. · Boiling point/Boiling range: Undetermined. · Flammability: Highly flammable. Explosion limits: 3.5 Vol % · Lower: · Upper: 15 Vol % · Flash point: 16.6 °C (61.9 °F) · Auto igniting: 425 °C (797 °F) · Decomposition temperature: Not determined. pH-value: Not determined. (Continued on page 6)



Date of issue: 04/17/2025

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	(Continuation of page 5	
Viscosity:		
Kinematic:	Not determined.	
Dynamic:	Not determined.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	1,000 g/l	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure:	Not determined.	
Vapor pressure:		
Density at 20 °C (68 °F):	0.8-0.84 g/cm³ (6.676-7.0098 lbs/gal)	
Relative density	Not determined.	
Specific Gravity	0.800 - 0.840 @ 20 °C (33.4 - 33.5 @ 68 °F)	
Refractive Index		
Vapor density	Not determined.	
Particle characteristics	Not applicable.	
Other information		
Appearance:		
Form:	Liquid	
Important information on protection of he		
and environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation of	
	explosive air/vapor mixtures are possible.	
Solvent content:		
Organic solvents:	75-80 %	
VOC content:	75-80 %	
	640-672 g/l / 5.34-5.61 lb/gal	
Change in condition		
Evaporation rate	Not determined.	

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:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.

(Continued on page 7)

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

Date of issue: 04/17/2025

(Continuation of page 6)

Trade name: Fermentone 5% in ETOH natural

• Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

· Interactive effects No interactive effects between components are known.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

· Toxicity

Irritant

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · 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.

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.

14 Transport information	
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· UN-Number

· DOT, IMDG, IATA

UN1197

(Continued on page 8)



Date of issue: 04/17/2025

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Trade name: Fermentone 5% in ETOH natural (Continuation of page 7) · UN proper shipping name · DOT, IATA Extracts, liquid ·IMDG EXTRACTS, LIQUID · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3 · IMDG, IATA Class **3 Flammable liquids** · Label 3 Packing group · DOT, IMDG, IATA 11 · Environmental hazards: • Marine pollutant: No · 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 ·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 · Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D Stowage Category A • UN "Model Regulation": UN 1197 EXTRACTS, LIQUID, 3, II

(Continued on page 9)



Date of issue: 04/17/2025

Reviewed on 04/17/2025

Trade name: Fermentone 5% in ETOH natural

(Continuation of page 8)

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):

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.

· 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

· 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 Danger

• **Hazard-determining components of labeling:** Beta Damascenone

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

(Continued on page 10)

A3



Date of issue: 04/17/2025

Trade name: Fermentone 5% in ETOH natural

H317 May cause an allergic skin reaction.

(Continuation of	of page	9)
		5. page	~ ,

· Precautionary statements				
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+P353	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.			
· Chemical safety 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**

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- · Department issuing SDS: Product Safety Department

• Contact: Product Safety Department

productsafety@adv-bio.com

- Date of previous version 01/24/2025
- Date of preparation 04/17/2025
- 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- 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
- 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