

Printing date 01/16/2024

Reviewed on 01/16/2024

1 Identification

- · Product identifier
- [•] Trade name: Furanone 12% ETOH Natural
- · Product number: 1137
- · Application of the substance / the mixture Flavoring Ingredients
- · Details of the supplier of the safety data sheet

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

- 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 H225 Highly flammable liquid and vapor.



Skin Corrosion 1BH314 Causes severe skin burns and eye damage.Eye Damage 1H318 Causes serious eye damage.

GHS07

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).

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

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 Dangerous compor 	nents:	
CAS: 64-17-5 EINECS: 200-578-6	Ethanol 🚸 Flammable Liquids 2, H225; 🐠 Eye Irritation 2A, H319	50-100%
	Furaneol Skin Corrosion 1B, H314; Eye Damage 1, H318; � Acute Toxicity - Oral 4, H302; Sensitization - Skin 1A, H317	10-25%

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. Then 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. Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- 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

sawdust).
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Trade name: Furanone 12% ETOH Natural (Continuation of page 3) · 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 · PAC-2: CAS: 64-17-5 Ethanol 3300* ppm · PAC-3: CAS: 64-17-5 Ethanol 15000* 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.
 Keep respiratory protective device available.
- · 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: 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

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



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· Exposure controls

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· Personal protective equipment:

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• 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 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 General Information 	chemical properties	
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:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	



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· Flash point:	17.8 °C (64 °F)
Flammability (solid, gaseous):	Highly flammable.
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): Vapor pressure at 50 °C (122 °F):	59 hPa (44.3 mm Hg) 280 hPa (210 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.84-0.87 g/cm³ (7.0098-7.26015 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: VOC content:	88.0 % 88.00 % 739.2-765.6 g/l / 6.17-6.39 lb/gal
Solids content:	12.0 %
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.

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Acute toxicity: LD/LC50 values	hat are relevant for classification:
ATE (Acute Toxi	
Oral LD50	13,400 mg/kg (ATE)
CAS: 64-17-5 Et	anol
Oral LD50	7,060 mg/kg (rat)
Inhalative LC50/4	h 20,000 mg/l (rat)
Sensitization: Se Additional toxice The product sho	ffect: ritant effect. g irritant with the danger of severe eye injury. nsitization possible through skin contact. logical information: vs the following dangers according to internally approved calculation methods
on the eye: Stron Sensitization: Se Additional toxic	ritant effect. g irritant with the danger of severe eye injury. nsitization possible through skin contact. logical information: vs the following dangers according to internally approved calculation methods
on the eye: Stror Sensitization: So Additional toxico The product sho preparations: Irritant Carcinogenic ca IARC (Internatio	ritant effect. g irritant with the danger of severe eye injury. nsitization possible through skin contact. logical information: vs the following dangers according to internally approved calculation methods egories nal Agency for Research on Cancer)
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on the eye: Stror Sensitization: So Additional toxico The product sho preparations: Irritant Carcinogenic ca IARC (Internatio CAS: 64-17-5 Et NTP (National To	ritant effect. g irritant with the danger of severe eye injury. nsitization possible through skin contact. logical information: vs the following dangers according to internally approved calculation methods egories nal Agency for Research on Cancer) anol xicology Program)
on the eye: Stror Sensitization: So Additional toxico The product sho preparations: Irritant Carcinogenic ca IARC (Internatio CAS: 64-17-5 Et	ritant effect. g irritant with the danger of severe eye injury. nsitization possible through skin contact. logical information: vs the following dangers according to internally approved calculation methods egories nal Agency for Research on Cancer) anol xicology Program)

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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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

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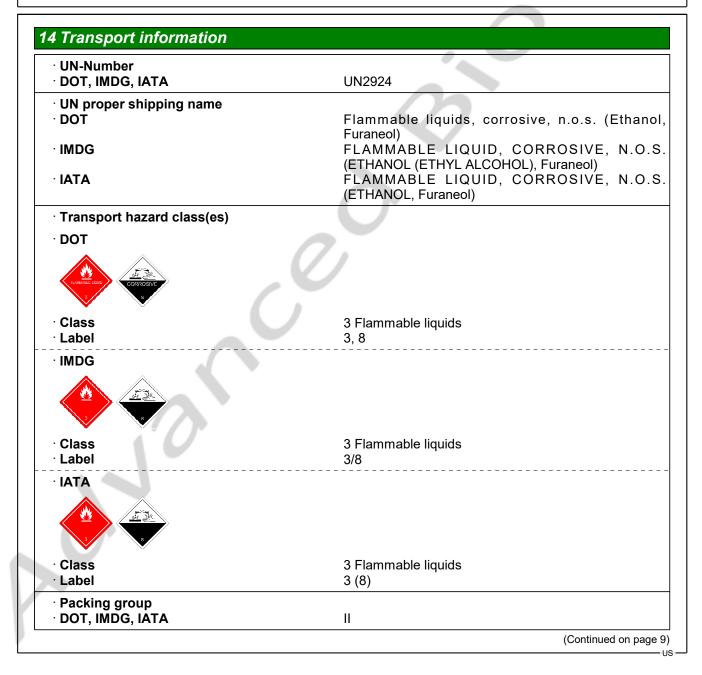
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13 Disposal considerations

- · 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.





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Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): 	Warning: Flammable liquids
EMS Number: Stowage Category	F-E,S-C B
Stowage Code Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	SW2 Clear of living quarters.
	Not applicable.
Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L
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 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL (ETHYL ALCOHOL), FURANEOL), 3 (8), II

15 Regulatory information

- $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ 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

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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

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Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: Furaneol
- Hazard statements

H225 Highly flammable liquid and vapor.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

· Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe/dust/fume/gas/mist/vapors/spray.
- 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.

- P310 Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P405 Store locked up. P501 Dispose of conte

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.

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.

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P.O.

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(Continuation of page 1 H319 Causes serious eye 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 to 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 Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) L550: Lethal concentration, 50 percent DES: Dethal dose, 50 percent PBT: Persistent, Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TU: Threshold Limit Value PEL: Permissible Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute loxicity – Category 4 Skin Corrosion 1B: Skin corrosion/intation – Category 1 Eye Dritation 2A: Serious eye damage/eye irritation – Category 1 Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Damage 1: Serious eye damage/eye irritation – Category 1 EyerDimetre Shin 42: Serious eye damage/eye irritation – Category 1 Seribilization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 4: Skin sensitisati
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 th International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ENINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified 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 DBT: Persistent, Bioaccumulative and Toxic VPB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEI: Permissible Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Corrosoin 1B: Skin corrosion/Iritation – Category 1 Eye Dranage 1: Serious eye damage/eye iritation – Category 2 Acute Toxicity - Serious eye damage/eye iritation – Category 2 Sensitization - Skin 1: Skin sensitisation – Category 2 Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1
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