

Printing date 01/16/2024

Reviewed on 01/10/2023

1 Identification

- · Product identifier
- [•] Trade name: Ethyl Furanone 20% PG Synthetic
- · Product number: 2241
- · CAS Number: 27538-09-6/27538-10-9/57-55-6
- · EINECS Number: 248-513-0/200-338-0
- · 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 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



Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye 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).

Hazard pictograms



Signal word Warning
 Hazard statements
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

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

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| | (Continuation of page 1 |
|--------------------------------|---|
| Precautionary | statements |
| P264 | Wash thoroughly after handling. |
| P280 | Wear eye protection / face protection. |
| P305+P351+P3 | 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| Classification | |
| NFPA ratings (| (scale 0 - 4) |
| | re = 1 eactivity = 0 scale 0 - 4) |
| FIRE 1 | lealth = 2 iire = 1 Reactivity = 0 |
| Other hazards Results of PB | Γ and vPvB assessment |
| PBT: Not applie | cable. |
| vPvB: Not appl | |
| | |

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

| Bullgereue eemper | | |
|-------------------|---|---------|
| CAS: 57-55-6 | Propylene glycol | 50-100% |
| EINECS: 200-338-0 | | |
| CAS: 27538-09-6 | 2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone | 10-25% |
| EINECS: 248-513-0 | Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319 | |

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · 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.

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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, powder or alcoholresistant foam.

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- 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 Not required.

Environmental precautions: Dilute with plenty of 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).

· 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: 57-55-6 Propylene glycol

30 mg/m³

1,300 mg/m³

7,900 mg/m³

· PAC-2:

CAS: 57-55-6 Propylene glycol

· PAC-3:

CAS: 57-55-6 Propylene glycol

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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.

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- 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:

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: 57-55-6 Propylene glycol

WEEL Long-term value: 10 mg/m³

· 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:

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: 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. 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

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| Information on basic physical and c | chemical properties |
|---------------------------------------|--|
| General Information | |
| Appearance: | |
| Form: | Liquid |
| Color: Odor: | According to product specification According to product specification |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 187 °C (368.6 °F) |
| Flash point: | 107 °C (224.6 °F) |
| Flammability (solid, gaseous): | Not applicable. |
| Auto igniting: | 371 °C (699.8 °F) |
| Decomposition temperature: | Not determined. |
| Ignition temperature: | Product is not selfigniting. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Explosion limits: | |
| Lower: | 2.6 Vol % |
| Upper: | 12.6 Vol % |
| Vapor pressure at 20 °C (68 °F): | 0.1 hPa |
| Density at 20 °C (68 °F): | 1.05-1.07 g/cm³ (8.76225-8.92915 lbs/gal) |
| Specific Gravity | 1.050 – 1.070 @ 20 °C (33.9 – 33.9 @ 68 °F) |
| Relative density | Not determined. Not determined. |
| Vapor density Evaporation rate | Not determined. |
| Solubility in / Miscibility with | |
| Water: | Fully miscible. |
| Partition coefficient (n-octanol/wate | |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| Organic solvents: | 80.0 % |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |

10 Stability and reactivity

· Reactivity No further relevant information available.

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- · 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 8,650 mg/kg (ATE)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients 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.

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

| Transport information | |
|---|--|
| · UN-Number · DOT, ADN, IMDG, IATA | Not Regulated |
| · UN proper shipping name · DOT, ADN, IMDG, IATA | Not Regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA · Class | Not Regulated |
| Packing group DOT, IMDG, IATA | Not Regulated |
| · Environmental hazards: · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Not Regulated |
| | |

15 Regulatory information

 $^{\rm o}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm o}$ 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.

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

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| | (Continuation of page 7) |
| 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: | |
| None of the ingredients is listed. | |
| Carcinogenic categories | |
| EPA (Environmental Protection Agency) | |
| None of the ingredients is listed. | |
| TLV (Threshold Limit Value) | |
| None of the ingredients is listed. | |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| None of the ingredients is listed. | |
| Pictograms on label shall be in the shape of a square set at a point and shall in 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 Hazard pictograms | э. |
| Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P264 Wash thoroughly after handling. P280 Wear eye protection / face protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Rem present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. | ove contact lenses, if |

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.



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| Harmful if swallowed. Harmful if the furtification System (USA) Harmful if a roccupational (USA, EU) Harmful and the swallowed. H | | (Continuation of page 8) |
|--|---|--|
| H315 Causes skin irritation. H319 Causes serious eye irritation. H315 Causes status eye irritation. H315 Causes eye irritation. H315 Causes eye irritation. H315 Causes eye irritation. H315 Causes eye irritation. H415 Causes eyes eye eye eye eye eye eye eye eye | Relevant phrases | |
| 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: DR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the thermational Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ATA: International Air Transport Association Commercial Chemical Substances LINCS: European Inventory of Existing Commercial Chemical Substances LINCS: European List of Notified Chemical Substances As: Chemical Abstracts Service (division of the American Chemical Society) IFPA: National Fire Protection Association (USA) MINS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) C50: Lethal concentration, 50 percent D50: Lethal concentration, 50 percent D51: Permissible Exposure Limit KE: Recommended Exposure Limit KE: | H302 Harmful if swallowed. | |
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