

Date of issue: 01/24/2025

Reviewed on 01/09/2025

1 Identification

· Product identifier

- [·] Trade name: Walnut Furanone Natural
- · Other means of identification
- Product number: 1545
- · 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
GHS05 Corrosion
Skin corrosion 1B H314 Causes severe skin burns and eye damage.
Eye damage 1 H318 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).
Hazard pictograms
GHS05 GHS07



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		(Continuation of page 1)
Signal word D	Janger	
	nining components of labeling:	
uraneol		
lazard statem		
	severe skin burns and eye damage.	
	se an allergic skin reaction.	
recautionary		
260	Do not breathe dusts or mists.	
303+P361+P	353 If on skin (or hair): Take off immediately all co water [or shower].	ontaminated clothing. Rinse skin with
305+P351+P	338 If in eyes: Rinse cautiously with water for severa	al minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.	
310	Immediately call a poison center/doctor.	
321	Specific treatment (see on this label).	
362+P364	Take off contaminated clothing and wash it before	ore reuse.
405	Store locked up.	
°501	Dispose of contents/container in accordance wi regulations.	ith local/regional/national/international
Fi	lealth = 3 ire = 1 leactivity = 0	
IMIS-ratings		
	Health = *3 Fire = 1	
	Fire = 1 Reactivity = 0	
)ther hazards		
esults of PB	T and vPvB assessment	
BT: Not appli	cable.	
PvB: Not app		
lassification	according to (d)(1)(ii) of § 1910.1200	
	er does not object to the classifications provided	d by importers or manufacturers of
	lucto	
recursor prod		
recursor prod I azards not o	otherwise classified otherwise classified otverse physical or health effects known that are not	

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: 57-55-6 EINECS: 200-338-0	Propylene glycol	50-100%
	Furaneol Skin corrosion 1A, H314; Eye damage 1, H318;	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.
- 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

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- 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). Use neutralizing agent.
- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.

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30 mg/m³

1,300 mg/m³

7,900 mg/m³

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· Protective Action Criteria for Chemicals

· PAC-1:

CAS: 57-55-6 Propylene glycol

· PAC-2:

CAS: 57-55-6 Propylene glycol

· PAC-3:

CAS: 57-55-6 Propylene glycol

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 respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** 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.
- Further information about storage conditions: Keep receptacle tightly sealed.
- **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: 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
- · Appropriate engineering controls No further data; see section 7.
- · 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.

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

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 Breathing equipment: In case of brief exposure or low pollution use exposure use respiratory protective device that Protection of hands: 	e respiratory filter device. In case of intensive or longer
Protective gloves	
	resistant to the product/ the substance/ the preparation. the glove material can be given for the product/ the
	sed on consideration of the penetration times, rates of
The selection of the suitable gloves does not of quality and varies from manufacturer to ma	only depend on the material, but also on further marks of nufacturer. As the product is a preparation of several al can not be calculated in advance and has therefore to
	mined by the manufacturer of the protective gloves and
Tightly sealed goggles	O
9 Physical and chemical properties	
Information on basic physical and chemical	properties
General Information	
Physical state Color:	Liquid
	According to product specification
· Odor:	According to product specification
Odor threshold:	Not determined.
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flammability:	Not applicable.
Explosion limits:	0.01/10/
· Lower:	2.6 Vol %
Upper:	12.6 Vol %
Flash point:	>93 °C (>199.4 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
. Wotor	
 Water: Partition coefficient (n-octanol/water): 	Fully miscible. Not determined.

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Vapor pressure at 20 °C (68 °F):	0.1 hPa
Vapor pressure:	
Density at 20 °C (68 °F):	0.99-1.15 g/cm³ (8.26155-9.59675 lbs/gal)
Relative density	Not determined.
Specific Gravity	0.990 – 1.150 @ 20 °C (33.8 – 34.1 @ 68 °F)
Refractive Index	
Vapor density	Not determined.
Particle characteristics	Not applicable.
Other information	
Appearance:	
Form:	Liquid
Important information on protection of	
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	85.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	15.0 %
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:
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

- Oral LD50 10,720 mg/kg (ATE)
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:

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Irritant

· Interactive effects No interactive effects between components are known.

· 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.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · 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 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.

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		
· UN-Number · DOT, IMDG, IATA	UN1760	
· UN proper shipping name		
DOT	Corrosive liquids, n.o.s. (Furaneol)	
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Transport hazard class(es) DOT Impose Class 8 Corrosive substances Label 8 IMDG, IATA Impose 8 Corrosive substances Label 8 Packing group 1 DOT, IMDG, IATA II Environmental hazards: Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L IMDG 1L Excepted 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: Corrosive substances Hazard identification number (Kemler code): 80 80 EMS Number: F-A,S-B Stowage Category B Stowage Code SW2 Clear of living quarters.		(Continuation of page
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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: 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.

· 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: Furaneol
- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.

(Continued on page 10)



Date of issue: 01/24/2025

Reviewed on 01/09/2025

Trade name: Walnut Furanone Natural

Precautionary	(Continuation of page 9
P260	Do not breathe dusts or mists.
P303+P361+P	'353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Chemical safe	ety 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

H302 Harmful if swallowed.

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

- · Department issuing SDS: Product Safety Department
- · Contact:

Product Safety Department productsafety@adv-bio.com

- Date of previous version 01/10/2023
- Date of preparation 01/24/2025
- 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) 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
- Acute toxicity oral 4: Acute toxicity Category 4
- Skin corrosion 1A: Skin corrosion/irritation Category 1A
- Skin corrosion 1B: Skin corrosion/irritation Category 1B
- Eye damage 1: Serious eye damage/eye irritation Category 1
 - Sensitization skin 1: Skin sensitisation Category 1