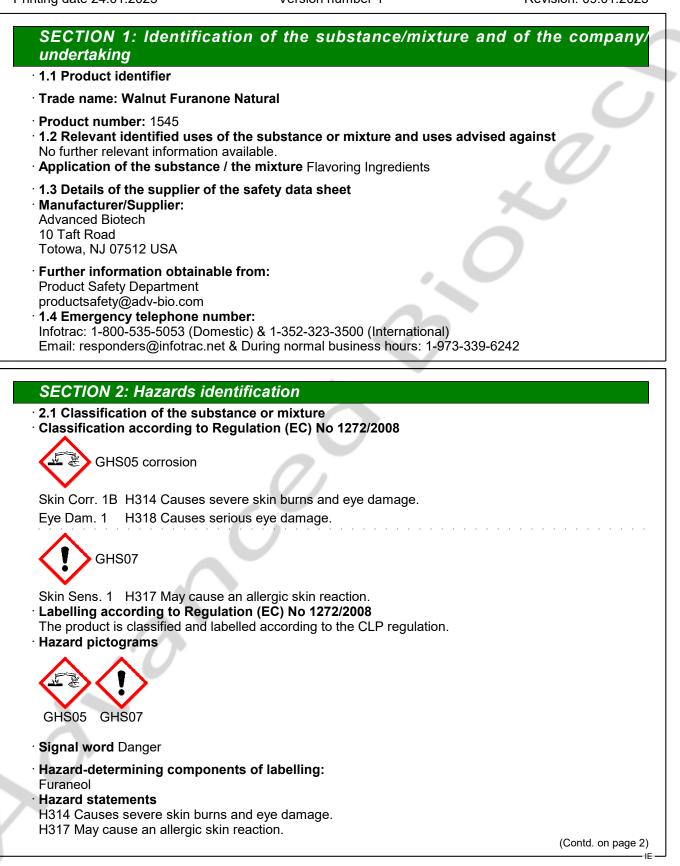


according to Regulation (EC) No 1907/2006, Article 31

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ADVANCED

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Walnut Furanone Natural

#### · Precautionary statements

Do not breathe dusts or mists. P260 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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). 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.

#### · 2.3 Other hazards

#### Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

# SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

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

· Dangerous components:		
	ropylene glycol ubstance with a Community workplace exposure limit	50-100%
EINECS: 222-908-8	uraneol Skin Corr. 1A, H314; Eye Dam. 1, H318; 아 Acute Tox. 4, H302; kin Sens. 1, H317 TE: LD50 oral: 1,608 mg/kg	10-25%
· Additional information	<b>p</b> : For the wording of the listed bazard phrases refer to section 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

# SECTION 4: First aid measures

- · 4.1 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.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 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.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation. 6.4 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.

# SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about fire - and explosion protection: Keep respiratory protective device available.

- · 7.2 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 container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

# CAS: 57-55-6 Propylene glycol

OEL Long-term value: 470\* 10\*\* mg/m³, 150\* ppm

\*total vapour and particulates \*\*particulates

Additional information: The lists valid during the making were used as a basis.

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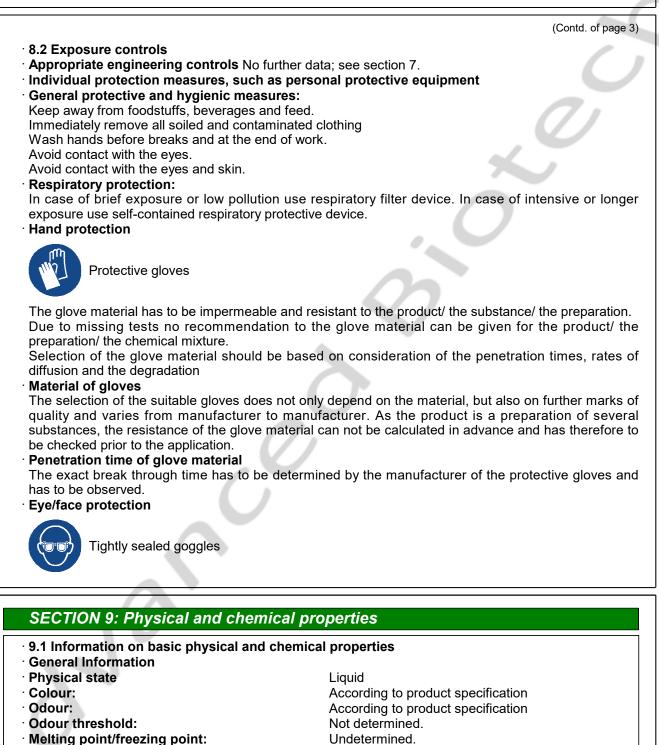
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Boiling point or initial boiling point and boiling

range

Flammability



Undetermined.

Not applicable.

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Lower and upper explosion limit	/
Lower:	2.6 Vol % (CAS: 57-55-6 Propylene glycol)
Upper:	12.6 Vol % (CAS: 57-55-6 Propylene glycol)
Flash point:	>93 °C (CAS: 3658-77-3 Furaneol)
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log va	alue) Not determined.
Vapour pressure at 20 °C:	0.1 hPa (CAS: 57-55-6 Propylene glycol)
Density and/or relative density	
Density at 20 °C:	0.99-1.15 g/cm³
Relative density	Not determined.
Specific Gravity	0.990 – 1.150 @ 20 °C
Refractive Index	
/apour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
mportant information on protection of he	
and environment, and on safety.	
gnition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	85.0 %
VOC (EC)	0.00 %
Solids content:	15.0 %
Change in condition	
Evaporation rate	Not determined.
nformation with regard to physical haz	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
lammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
	(Contd. on page 6



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· Organic peroxides	Void	
<ul> <li>Corrosive to metals</li> </ul>	Void	
<ul> <li>Desensitised explosives</li> </ul>	Void	

## SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.
- Acute toxicity based on available data, the classification criteria are not met

#### · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 10,720 mg/kg (ATE)

- Primary irritant effect:
- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects
   Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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 sewage water or drainage ditch undiluted or unneutralised.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

# SECTION 14: Transport information

<ul> <li>· 14.1 UN number or ID number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN1760
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	1760 CORROSIVE LIQUID, N.O.S. (Furaneol) CORROSIVE LIQUID, N.O.S. (Furaneol)
· 14.3 Transport hazard class(es)	/
· ADR	
· Class · Label	8 (C9) Corrosive substances.
	8
· IMDG, IATA	
Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group · ADR, IMDG, IATA	II
• 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Corrosive substances.
· EMS Number:	F-A,S-B
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<ul> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	B SW2 Clear of living quarters.
<ul> <li>14.7 Maritime transport in bulk accordin IMO instruments</li> </ul>	ng to Not applicable.
· Transport/Additional information:	
· ADR	
<ul> <li>Limited quantities (LQ)</li> </ul>	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
• Transport category 2	
Tunnel restriction code	Ē
· IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	1L
· Excepted quantities (EQ)	Code: E2
/	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (FURANEOL), 8, II

#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:
- Furaneol
- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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).
- P362+P364 Take off contaminated clothing and wash it before reuse.

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P405 P501	(Contd. of page Store locked up.
P501	
1 001	Dispose of contents/container in accordance with local/regional/national/internation regulations.
· Directive 2012	2/18/EU
	erous substances - ANNEX I None of the ingredients is listed.
	I (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
	2011/65/EU on the restriction of the use of certain hazardous substances i l electronic equipment – Annex II
None of the ing	gredients is listed.
· REGULATION	N (EU) 2019/1148
	STRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose on ler Article 5(3))
None of the ing	gredients is listed.
· Annex II - REF	PORTABLE EXPLOSIVES PRECURSORS
None of the ing	gredients is listed.
· Regulation (E	C) No 273/2004 on drug precursors
None of the ing	gredients is listed.
	EC) No 111/2005 laying down rules for the monitoring of trade between th nd third countries in drug precursors
None of the ing	gredients is listed.
	I safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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

· 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) 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 ATE: Acute toxicity estimate values Acute Tox. 4: Acute toxicity - Category 4

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#### Trade name: Walnut Furanone Natural

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1