

Printing date 01/16/2024

Reviewed on 01/10/2023

## 1 Identification

#### · Product identifier

- <sup>•</sup> Trade name: Furanone 15% PG Natural
- · Product number: 1077
- · 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

GHS05 Corrosion

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).

## · Hazard pictograms



· Signal word Danger

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

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Hazard-dete	rmining components of labeling:
Furaneol	
Hazard state	ments
H314 Causes	s severe skin burns and eye damage.
H317 May ca	use an allergic skin reaction.
	ry statements
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 contents/container in accordance with local/regional/national/international regulations.
Classificatio	n system:
	Health = 3 Fire = 1 Reactivity = 0
$\checkmark$	s (scale 0 - 4)
HEALTH*3FIRE1REACTIVITY0	Health = *3 Fire = 1 Reactivity = 0
Other hazard	ls in the second se
	BT and vPvB assessment
<b>PBT:</b> Not app	
vPvB: Not ap	
Compositi	on/information on ingredients
Chemical ch	aracterization: Mixtures
	Mixture of the substances listed below with nonhazardous additions.
Dangerous of	
CAS: 57-55-6	
UAS: 31-35-0	Propylene glycol 50-100%

EINECS: 200-338-0		50-10070
		10-25%
EINECS. 222-900-0	♦ Skin Corrosion 1B, H314; Eye Damage 1, H318; ♦ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1A, H317	

## 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.

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- 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

 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.
- **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
PAC-2:	
CAS: 57-55-6 Propylene glycol	1,300 mg/m <sup>3</sup>
· PAC-3:	
CAS: 57-55-6 Propylene glycol	7,900 mg/m³
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## 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 respiratory protective device available.
- · 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.
- 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/m<sup>3</sup>

• 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:

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

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• **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:

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Tightly sealed goggles

## 9 Physical and chemical properties

· Information on basic physical and o	chamical proportios
· 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.
· Flash point:	>93 °C (>199.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· 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):	0.99-1.15 g/cm³ (8.26155-9.59675 lbs/gal)
Specific Gravity	0.990 – 1.150 @ 20 °C (33.8 – 34.1 @ 68 °F)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
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Partition coefficient (n-octano	mwater). Not determined.	
Viscosity: Dynamic:	Not determined	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	85.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	15.0 %	

## 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:

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.

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#### · 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.

- 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.

## 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.

· UN-Number · DOT, IMDG, IATA	UN1760
<ul> <li>UN proper shipping name</li> <li>DOT</li> <li>IMDG, IATA</li> </ul>	Corrosive liquids, n.o.s. (Furaneol) CORROSIVE LIQUID, N.O.S. (Furaneol)
<ul> <li>Transport hazard class(es)</li> <li>DOT</li> </ul>	
CORTOSIVE	
· Class	8 Corrosive substances



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Label	8
	0
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler cod EMS Number: Stowage Category	F-A,S-B B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	f Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 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 1760 CORROSIVE LIQUID, N.O.S. (FURANEOL) 8, II

## 15 Regulatory information

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

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· Proposition 65

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 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

GHS05 GHS07

#### · 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.

## Precautionary statements

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 contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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	ation is based on our present knowledge. However, this shall not constitute a guarantee for
	product features and shall not establish a legally valid contractual relationship.
· Relevant p	ful if swallowed.
	es severe skin burns and eye damage.
	ause an allergic skin reaction.
	es serious eye damage.
	t issuing SDS: Product Safety Department
Contact:	
	ety Department
	ty@adv-bio.com
	paration / last revision 01/16/2024
	ons and acronyms:
	relatif au transport international des marchandises dangereuses par route (European Agreement Concerning th
	arriage of Dangerous Goods by Road)
	ional Maritime Code for Dangerous Goods artment of Transportation
IATA: Internat	onal Air Transport Association
EINECS: Euro	pean Inventory of Existing Commercial Chemical Substances
	pean List of Notified Chemical Substances
	I Abstracts Service (division of the American Chemical Society)
	al Fire Protection Association (USA) Dus Materials Identification System (USA)
	Organic Compounds (USA, EU)
	oncentration, 50 percent
LD50: Lethal o	ose, 50 percent
	nt, Bioaccumulative and Toxic rsistent and very Bioaccumulative
	al Institute for Occupational Safety
	ational Safety & Health
TLV: Threshol	d Limit Value
	ble Exposure Limit
	ended Exposure Limit - Oral 4: Acute toxicity – Category 4
	1B: Skin corrosion/irritation – Category 1B
	: Serious eye damage/eye irritation – Category 1
Sensitization -	Skin 1: Skin sensitisation – Category 1
Sensitization -	Skin 1A: Skin sensitisation – Category 1A
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