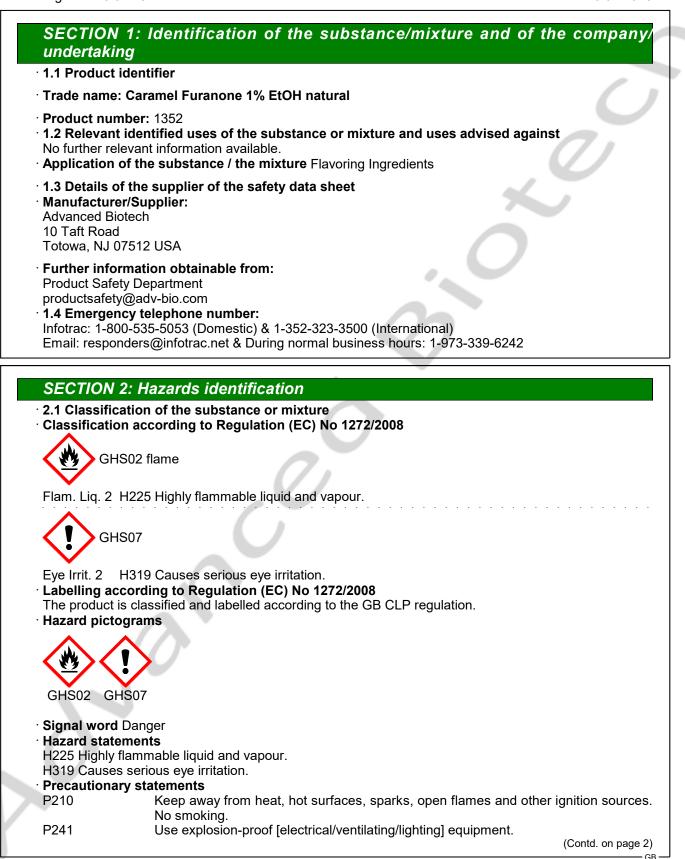


Printing date 16.01.2024

# Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 10.01.2023



50-100%

🗘 Eye Irrit. 2, H319



# Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 10.01.2023

## Trade name: Caramel Furanone 1% EtOH natural

(Contd. of page 1) 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. P403+P235 Store in a well-ventilated place. Keep cool. 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.

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**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:

CAS: 64-17-5 Ethanol EINECS: 200-578-6

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; 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.
- **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.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 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.

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# SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures 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). 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 No special precautions are necessary if used correctly.
- Information about fire and explosion protection:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · 7.2 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 container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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: 64-17-5 Ethanol

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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

## · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as 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.
- Respiratory protection: Not required.

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#### Hand protection 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 guality 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/face protection Tightly sealed goggles SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties · General Information Molecular Weight: 46 g/mol · Physical state Fluid · Colour: According to product specification · Odour: According to product specification · Odour threshold: Not determined. · Melting point/freezing point: -114.5 °C · Boiling point or initial boiling point and boiling range 78 °C · Flammability Highly flammable. · Lower and upper explosion limit · Lower: 3.5 Vol % 15 Vol % · Upper: 16 °C · Flash point: 425 °C · Auto-ignition temperature: · Decomposition temperature: Not determined. · pH Not determined. Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined. Solubility · water at 20 °C: 1,000 g/l · Partition coefficient n-octanol/water (log value) Not determined. (Contd. on page 5)



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## Trade name: Caramel Furanone 1% EtOH natural

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Vapour pressure at 20 °C:	59 hPa
Density and/or relative density	
Density at 20 °C:	0.82 g/cm <sup>3</sup>
Relative density	Not determined.
Refractive Index	
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	99.0 %
VOC (EC)	99.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical has	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
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	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	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.

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## Trade name: Caramel Furanone 1% EtOH natural

· 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.

## · LD/LC50 values relevant for classification:

## CAS: 64-17-5 Ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  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.

- 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.

# 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. (Contd. on page 7)

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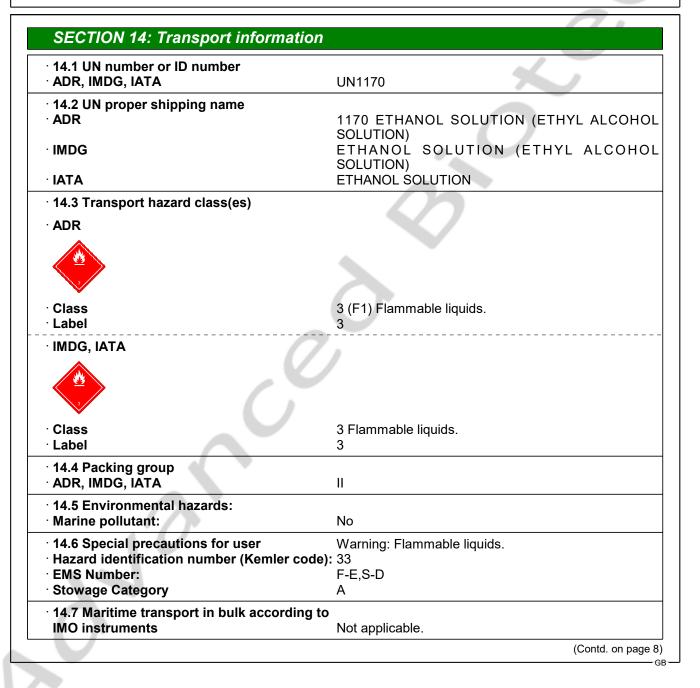
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#### Trade name: Caramel Furanone 1% EtOH natural

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.







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## Trade name: Caramel Furanone 1% EtOH natural

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· 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
<ul> <li>Transport category</li> </ul>	2
<ul> <li>Tunnel restriction code</li> </ul>	D/E
·IMDG	
· Limited quantities (LQ)	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 1170 ETHANOL SOLUTION (ETHYL ALCOHOL
	SOLUTION), 3, II

# SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

## Regulated explosives precursors

None of the ingredients is listed.

#### · Regulated poisons

None of the ingredients is listed.

#### · Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



## · Signal word Danger

#### · Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

## Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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## Trade name: Caramel Furanone 1% EtOH natural

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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 contac lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Directive 2012/18	/EU
	Is substances - ANNEX I None of the ingredients is listed. P5c FLAMMABLE LIQUIDS
	ity (tonnes) for the application of lower-tier requirements 5,000 t
	ity (tonnes) for the application of upper-tier requirements 50,000 t
•	C) No 1907/2006 ANNEX XVII Conditions of restriction: 3
· DIRECTIVE 201	1/65/EU on the restriction of the use of certain hazardous substances in
electrical and ele	ctronic equipment – Annex II
None of the ingred	lients is listed.
· REGULATION (E	U) 2019/1148
Annex I - REST	RICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose o Article 5(3))
None of the ingred	lients is listed.
· Annex II - REPOR	TABLE EXPLOSIVES PRECURSORS
None of the ingred	lients is listed.
· Regulation (EC) I	No 273/2004 on drug precursors
None of the ingred	lients is listed.
	No 111/2005 laying down rules for the monitoring of trade between the third countries in drug precursors
None of the ingred	lients is listed.
<sup>.</sup> 15.2 Chemical sa	fety assessment: A Chemical Safety Assessment has not been carried out.
	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

H319 Causes serious eye irritation.

- · Department issuing SDS: Product safety department
- **Contact:** Product Safety Department productsafety@adv-bio.com
- Date of previous version: 12.01.2021
- 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)

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#### Trade name: Caramel Furanone 1% EtOH natural

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2