

## BIOANTISEPTICA zur Händedesinfektion

Date: April 1<sup>st</sup>, 2020

### 1. NAME OF THE SUBSTANCE OR OF THE MIXTURE AND THE COMPANY

#### 1.1. Product identifier

Trade name                    BIOANTISEPTICA, Antiseptisches Desinfektionsmittel

#### 1.2. Relevant identified target groups / uses of the substance or mixture and uses

Use of substance / mixture:

- Food industry, gastronomy, public area
- Medical device manufacturing, schools, kindergartens, etc.
- Medical practices, hospitals, therapeutic practices
- Recommended restriction, medication

#### 1.3. Details manufacturer

Biochem Bernburg GmbH  
Neuer Weg 1  
D-06406 Bernburg  
+49 3471 315366  
+49 3471 315373

#### 1.4 Emergency call (information desk)

Emergency call no: +49 69 2222 5285 [CareChem 24]  
E-Mail info@biochem-bernburg.de

### 2. POSSIBLE DANGERS

#### 2.1 Classification of substance or mixtures according to Regulation (EC) No. 1272/2008

Hazard class, hazard category, target organs, hazard warnings

Flammable liquids, category 2	H226: Flammable liquid and vapor
Eye irritation, category 2	H319: Causes serious eye irritation
Specific Target Organ Toxicity single exposure, category 3, central nervous system	H336: May cause drowsiness or dizziness.

Classification (67/548 / EEC, 1999/45 / EC) - R10: Flammable  
- R 36 irritates the eyes.  
- R 67 fumes can cause drowsiness and dizziness

For the full text of the R-phrases mentioned in this Section, see Section 16.

**Important harmful effects**

Human health see section 11 for toxicological information.  
Physical and chemical hazards see section 9 for physico-chemical information.  
Possible environmental effects: see section 12 for information on ecology.

**2.2 Label elements Labeling according to Regulation (EC) No. 1272/2008**

Symbol for danger:



Signal word:

CAUTION

CAUTION

Danger notice:

H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness and dizziness.

**Safety notice**

prevention

P102 Keep out of the reach of children.  
P210 Keep away from heat / sparks / open flames / hot surfaces.  
Do not smoke.

reaction:

P337 + P313 If eye irritation persists: seek medical advice or medical attention.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
possibly. Remove contact lenses. Continue rinsing.  
P301 + P310 IF SWALLOWED: Contact a POISON CENTER or doctor immediately.

disposal:

P501 Dispose of contents / container to a recognized waste disposal facility

Hazard-determining component (s)

ethanol (UN 1987, CAS 64-17-5) for labeling

**2.3 Further dangers**





Vapors of the product can form flammable and explosive mixtures together with air.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 single substances

(not relevant since mixture – 3.2)

#### 3.2 Gemische

Chemical description	CAS EG-Nr.	According to. (VO-EG Nr. 1272/2008)	pictograms	concentration (%) within the product
Ethanol	CAS-Nr. 64-17-5 EG-Nr. 200-578-6	Flamm. Liquid 2/H225 Eye irr. 2 / H319	 	80,000 %
Glycerin (BIO)	CAS-Nr. 56-81-5 EG-Nr. 200-289-5	not rated	--	1,446 %
Hydrogen peroxide	CAS-Nr. 7722-84-1	Acute toxicity, Category 4 / H302 Acute toxicity, Category 4 / H332 Skin corrosion / Category 1A / H314 Specific target organ toxicity - single exposure, category 3 H335 Chronic aquatic toxicity, Category 3 / H412	 	0,125 %
Demineralised water	CAS-Nr. 7732-18-5 EG-Nr. 200-791-2	not rated	--	18,429 %

The substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

### 4. First Aid Measures

#### 4.1 Description of first aid measures

General advice if you feel unwell:

First support needs to protect himself. Take affected people out of danger area.

After inhalation:

Move to fresh air. If the problems are persistent, consult a doctor.

After eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an ophthalmologist immediately.

After swallowing:

rinse mouth with water and drink plenty of water. If the problems are persistent, consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:

Irritant effects on eyes and mucous membranes

Effects:

Irritating to eyes.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treatment according to the doctor's assessment of the patient's condition.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: full water jet

#### 5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Combustible material. No dangerous combustion products.

#### 5.3 Advice for firefighters

Protective equipment for fire-fighters: Wear self-contained breathing apparatus. Precautions common to chemicals.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment. Keep unprotected people away. Ensure sufficient ventilation, especially in closed rooms. Avoid contact with mucous membrane and eyes. Avoid fumes.

#### 6.2 Environmental protection measures

Environmental protection measures: Do not allow to get into the environment in large quantities.

#### 6.3 Methods and material for containment and cleaning up

Methods / material for containment & cleaning up: Mechanical suction with fabric or fleece. Place into suitable closed containers for disposal. Rinse with plenty of water.

6.4 Reference to other sections: see sections 8 and 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling: Protect from heat.

Advice on protection against fire and explosion: Keep away from sources of ignition. Do not smoke when handling.

Hygiene measures: Observe the usual precautionary measures when handling chemicals.

### 7.2 Conditions for safe storage taking incompatibilities into account

Requirements for storage rooms and containers: Store at room temperature in closed containers.

Advice on storage compatibility: Keep away from food.

Storage class (TRGS 510): 3, Flammable liquids

Storage temperature: <30 ° C

### 7.3 Specific end uses

remark: None known.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Parameters to be monitored

Components with workplace-related limit values to be monitored

Ingredients:			
Basis	Value	Limits	Notes
Ethanol (64-17-5)			
TRGS 900	AGW:	500 ppm 960 mg / m <sup>3</sup>	peak limit value 2 If the AGW and BGW values are observed there should be no fruit damage (2.7)

Category for short-term values Category II: Resorptive substances

### 8.2. Exposure controls / technical protection measures

See protective measures under topic 7. and 8.

### 8.3. Personal protective equipment

Respiratory protection: Required when vapors or aerosols occur.  
Recommended filter type: Filter A

Hand protection: Wear suitable protective gloves (butyl rubber)

Eye protection: Wear safety glasses.

Skin and body protection: Wear flame retardant antistatic protective clothing (cotton).

### 8.4. Limitation and monitoring of environmental exposure

General information: Do not allow to enter sewers (risk of explosion).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Form: liquid  
Color: colorless  
Odor: almost odorless (bio-ethanol)

pH value: approx. 7 at 20 ° C  
Melting point / range: - 114.5 ° C  
Boiling point: no data available

Flash point: at 12 ° C  
Flammability: no data available  
Upper explosion limit: > 1.3%

Lower explosion limit: 15%  
Vapor pressure: approx. 59 hPa at 20 ° C  
Relative vapor density: no data available

Density: 0.85 g / cm<sup>3</sup> at 20 ° C

Water solubility: fully water soluble  
Ignition temperature: 425 ° C

Explosive properties: Dust can form explosive mixtures with air.  
Oxidizing properties: not oxidizing  
Other information: none

#### 10.1 reactivity

Vapors can form an explosive mixture with air.

#### 10.2 Chemical stability

Chemically stable under normal conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Risk of explosion / exothermic reaction with:

Hydrogen peroxide, perchlorates, perchloric acid, nitric acid, mercury (II) nitrate, permanganic acid, nitriles, peroxy compounds, strong oxidizing agents, nitrosyl compounds, peroxides, sodium, potassium, halogen oxides, calcium hypochlorite, nitrogen dioxide, metal oxides, uranium hexafluoride, alkali metal metals, chlorine, alkaline earth metals, chlorine Alkaline oxides, ethylene oxide, silver, with, nitric acid, silver compounds, with ammonia

Potassium permanganate, with, concentrated sulfuric acid

Risk of ignition or formation of inflammable gases or vapors with:

Halogen-halogen compounds, chromium (VI) oxide, chromyl chloride, fluorine, hydrides, phosphorus oxides, platinum nitric acid, with potassium permanganate

#### 10.4 Conditions to avoid

Warming:

Flash point at 12 ° C

#### 10.5 Incompatible materials

Rubber and various plastics

#### 10.6 Hazardous decomposition products

Hazardous decomposition products:

No information available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute oral toxicity

LD50 rat: 10,470 mg / kg

OECD Test Guideline 401 (ethanol)

Symptoms: nausea, vomiting

#### Acute inhalation toxicity

LC50 rat: 124.7 mg / l; 4 h; steam

OECD Test Guideline 403

(Ethanol)

Symptoms / possible consequences: Irritation of the mucous membrane

#### Acute dermal toxicity

Symptoms: dermatitis, if necessary degreasing effect with the formation of brittle and cracked skin with multiple use.

#### Skin irritation

Rabbits

Result: No skin irritation

OECD Test Guideline 404 (ethanol)

#### Eye irritation

Rabbits

Result: eye irritation

OECD Test Guideline 405 (ethanol)

Causes serious eye irritation.

#### Awareness raising

Sensitization test (Magnusson and Kligman):

Result: negative

(IUCLID) (ethanol)

#### Germ cell mutagenicity Genotoxicity in vitro

Ames test Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471 (ethanol)

In vitro mammalian cell gene mutation test

Mouse lymphoma test

Result: negative

Method: OECD Test Guideline 476 (ethanol)

#### Carcinogenicity

No information available.

#### Reproductive toxicity

No information available.



**Teratogenicity**

No information available.

**Specific target organ toxicity - single exposure**

No information available.

**Specific target organ toxicity - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**11.2 Further information**

Systemic effects: euphoria

After absorption: dizziness, intoxication, anesthesia, respiratory paralysis

The usual precautionary measures for handling chemicals must be observed.

**12. ECOLOGICAL INFORMATION**

**12.1. toxicity**

**Toxicity to fish**

LC50 *Leuciscus idus* (golden orfe): 8,140 mg / l; 48 h (IUCLID) (ethanol)

**Toxicity to daphnia and other aquatic invertebrates**

EC5 *Entosiphon sulcatum*: 65 mg / l; 72 h (toxic limit) (Lit.) (ethanol)

EC50 *Daphnia magna* (large water flea): 9,268 - 14,221 mg / l; 48 h (IUCLID) (ethanol)

**Toxicity to algae**

IC5 *Scenedesmus quadricauda* (green algae): 5,000 mg / l; 7 d

(Limit Toxic Concentration) (Lit.) (Ethanol)

**Toxicity to bacteria**

EC5 *Pseudomonas putida*: 6,500 mg / l; 16 h

(Toxic limit) (IUCLID) (ethanol)

**Toxicity to daphnia and other aquatic invertebrates (chronic toxicity)**

semi-static test NOEC *Daphnia magna* (large water flea): 9.6 mg / l; 9 d

(ECHA) (ethanol)

### 12.2. Persistence and degradability

Biodegradability:	94% OECD Test Guideline 301E (ethanol)
Notes:	Easily biodegradable
Biochemical oxygen demand (BOD):	930 - 1,670 mg / g (5 d) (Lit.) (ethanol)
Theoretical Oxygen Demand (ThSB):	2,100 mg / g (Lit.) (ethanol)
Ratio COD / ThBOD:	90% (Lit.), (ethanol)

### 12.3. Bioaccumulative potential

Bioaccumulation:	No bioaccumulation, completely soluble
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### 12.4. Mobility in the soil

mobility	
Notes:	No data available

### 12.5. Results of PBT and vPvB assessment

Notes:	No information available due to lack of safety assessment.
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### 12.6. Other adverse effects

Other ecological information	
Notes:	Do not allow to enter surface water or sewage system.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product:	Do not allow to enter sewers. Please get in contact with with your disposal company
Contaminated packaging:	Contaminated packaging should be emptied optimally, then it can be recycled after appropriate cleaning. Clean the container with water.

Europäischer Abfallkatalogschlüssel:

Für dieses Produkt kann keine Abfallschlüsselnummer gemäß europäischem Abfallverzeichnis festgelegt werden, da erst der Verwendungszweck durch den Verbraucher eine Zuordnung erlaubt. Die Abfallschlüsselnummer ist in Absprache mit dem regionalen Entsorger festzulegen.

#### 14. TRANSPORT INFORMATION

Land transport (ADR / RID)

14.1 UN number	UN 1170
14.2 Proper shipping name	Ethanol
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous -	
14.6 Special precautions for the user	yes
Tunnel restriction code	D / E
Inland waterway transport (ADN)	Not relevant

Air transport (IATA)

14.1 UN number	UN 1170
14.2 Proper shipping name	ETHANOL
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	-
14.6 Special precautions for user	no

**Sea transport (IMDG)**

14.1 UN number	UN 1170
14.2 Proper shipping name	ETHANOL
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	-
14.6 Special precautions for user	no

**EmS F-E S-D**

<b>14.7 Transport in bulk according to Annex II</b> of MARPOL 73/78 and according to IBC code	Not relevant
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**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations / specific legislation  
for the substance or mixture**

<b>Accident Ordinance SEVESO III</b> Quantity 1: 5,000 t Quantity 2: 50,000 t	FLAMMABLE LIQUIDS P5c
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**Employment restrictions**

Observe employment restrictions in accordance with the youth work protection regulations (94/33 / EG).

Regulation (EC) No. 1005/2009 on substances that are lead to depletion of the ozone layer:	not regulated
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Regulation (EC) No. 850/2004 on persistent organic pollutants and change Directive 79/117 / EEC:	not regulated
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Substances of very high concern (SVHC)

This product does not contain any substances of very high concern according to REACH VO EG No. 1907/2006, Art. 57  
above the legal concentration limit of  $\geq 0.1\%$  (w / w).

National regulations Storage	class 3
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Water hazard class

WGK 1 slightly hazardous to water  
Leaflet BG-Chemie M017 solvents  
M050 Activities with hazardous substances  
M004 Irritant substances / Corrosive substances

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

## 16. OTHER INFORMATION

Full text of hazard statements in sections 2 and 3

H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness and dizziness.

### 16.1 Safety instructions / prevention

P210 Keep away from heat / sparks / open flames / hot surfaces. Do not smoke.  
P240 Ground metal containers, IBCs and the system to be filled.

### 16.2 response

P305 + P351 + P338 IF IN EYES: Gently with water for a few minutes  
do the washing up. If possible, remove any existing contact lenses. Continue rinsing.

Flammable	R 10:	Flammable
Irritant	R 36:	Irritating to eyes
	R 67:	fumes can cause drowsiness and dizziness.

### 16.3. Storage

**P403 + P233 Store in a well-ventilated place.**  
Keep container tightly closed.

### 16.4. Disposal

P501 Dispose of contents / container to a recognized waste disposal  
company.