

## SAFETY DATA SHEET REGULATION (EC) No: 1907/2006 (REACH)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier:

**Product name:** Bradogél Hand disinfectant gel

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

Biocidal product, product type: PT1

**Recommended use of the mixture:** Suitable for hygienic hand disinfection and surgical washing. For professional use.

Use it concentrated, undiluted. Rubbed the gel thoroughly on the hands and allowed to dry.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer: Florin Ltd  
Address: 17. Kenyérgyári út, Szeged, 6725  
Phone Number: 0062 592 100  
Fax: 0062 592 145  
E-mail: info@florin.hu

#### 1.4. Emergency telephone number

Health Toxicology Information Service (HTIS)  
Address: 2. Nagyváradi tér, Budapest, 1096, Hungary  
Telephone: +36 80 201 199  
+36 1 476 6464

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Determination of the product: mixture

Classification according to 1272/2008/EC regulation

Flam. Liq. 3 H226

The full text for all Classification and Hazard Statements is displayed in Section 16.

#### 2.2. Label elements

**Hazard pictogram:**



**Word of caution:** Warning

**Hazard statements:**

H226 Flammable liquid and vapour.

**Precautionary statements:**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

**Additional informations:** Do not mix with other cleaning and disinfecting agents! Do not touch electrical equipment until your hands are completely dry. Use only on intact skin.

**Ingredients (in 100g product):**

Biocidal product: Ethanol (96%) 72.9 g (CAS: 64-17-5).

Other Ingredients: Carbomer, Propylene Glycol, 2-Amino 2-Methyl 1-Propanol, Water.

Hazardous ingredient: Ethanol.

**2.3. Other hazards:** None known.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

Ingredients	EU-number	CAS-number	REACH registration number	Conc. (%)	Classification 1272/2008/EK	Type
Ethanol	200-578-6	64-17-5	01-2119457610-43	<73	Flam. Liq. 2 H225	(2)

The full text for all Classification and Hazard Statements is displayed in Section 16.

Type:

- (1) Material classified according to health or environmental danger
- (2) Material has occupational exposure limit
- (3) Material meets the PBT criteria according to XIII. Annex of 1907/2006/EC decree
- (4) Materials meet the vPvB criteria according to XIII. Annex of 1907/2006/EC decree
- (5) Substance subject to authorization Annex XIV to Regulation (EC) No 1907/2006 Annex, or SVHC of particular concern. Occupational exposure limits, if available, are detailed in section 8.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Avoid contact with eyes, mucous membranes and open wounds. If this happens, remove it with plenty of clean water, rinse for 10-15 minutes, and then seek medical attention.

Inhalation: Remove the injured person to fresh air.

Eye contact: Rinse the eyes with running water for at least 10 minutes, pulling the edges of the eyelids apart and constantly moving the eyeball. If symptoms persist, consult a specialist.

Ingestion: If swallowed, rinse mouth thoroughly, then drink plenty of water and seek medical advice immediately. Do not induce vomiting.

Skin contact: Not relevant when used as directed.

**4.2. Most important symptoms and effects, both acute and delayed**

No data is available on the product. See Section 11 for information on ingredients.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. No special treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: water spray, CO<sub>2</sub>, dry powder, alcohol-resistant foam.

Unsuitable extinguishing media: strong jet water

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

Special hazards arising from the substance or mixture: no data available.

Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

### 5.3. Advice for firefighters

Protective measures: In the event of a large fire, wear protective clothing and self-contained breathing apparatus in a closed or poorly ventilated area. If not hazardous, containers should be removed from fire area.

## SECTION 6: Accidental release measures

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

Only emergency personnel can be on site, other people must be removed.

Personal precautions: Ensure adequate ventilation.

Open flames, sources of ignition and sparks must be removed.

### 6.2. Environmental precautions

Do not allow product to reach surface or ground water, soil or sewage system.

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

Absorb large spills or spillage with inert absorbent material (sand, ground) and collect in closed, labeled container, kept away from heat and sources of ignition. Contaminated material must be disposed of in accordance with regulations.

### 6.4. Reference to other sections

Personal protection: Check SECTION 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes not in accordance with the instructions for use.

Do not mix with other cleaning and disinfecting agents!

Do not touch the electrical equipment until your hands are completely dry. Use only on intact skin.

Store away from food, out of reach of children. Keep away from heat, sparks, open flames and hot surfaces.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in the original, intact container, dry, well-ventilated place at a temperature between 0°C and 35°C, away from open flames and sources of ignition. Store away from food, out of reach of children. Keep containers closed until use, carefully close containers that have already been opened after use to prevent leakage.

The 5L unit once opened, it can be used for 6 months.

### 7.3. Specific end use(s).

The uses specified in 1.2. section, hand disinfection.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Name of ingredient	Exposure threshold limit According to 5/2020. (II. 6.) ITM regulations
Ethanol	TWA value: 1900 mg/m <sup>3</sup> STEL-value: 3800 mg/m <sup>3</sup>

### 8.2. Exposure controls

Personal protective equipment: No personal protective equipment required when the product is used properly and as directed.

General protective and hygiene measures: Avoid contact with eyes, ingestion and inhalation of vapors.  
Do not touch electrical equipment until your hands are completely dry.

## SECTION 9: Physical and chemical properties

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

a) Appearance:	colorless, clear, viscous gel
b) Odour:	fragrance free, with alcoholic odour
c) Odour threshold:	Not applicable
d) pH:	6,5-7,5
e) Melting point/freezing point:	not specified for the mixture
f) Initial boiling point and boiling range:	not specified for the mixture
g) Flash point:	24°C
h) Evaporation rate:	no data available
i) Flammability (solid, gas):	not flammable
j) Upper/lower flammability or explosive limits:	no data available
k) Vapour pressure:	no data available
l) Vapour density:	no data available
m) Relative density:	0,87-0,89 g/cm <sup>3</sup>
n) Solubility(ies):	soluble with water in any concentration.
o) Partition coefficient n-octanol/water:	no data available
p) Auto-ignition temperature:	not self-igniting
q) Decomposition temperature:	not applicable
r) Viscosity:	6000-10000mPas
s) Explosive properties:	not explosive
t) Oxidising properties:	does not show oxidizing properties

### 9.2. Other informations

No further information is available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No specific data are available on the reactivity of this product or its ingredients.

### 10.2. Chemical stability

The product is stable at the required storage temperature under normal working conditions.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4. Conditions to avoid

Open flame, ignition source, temperatures above 35°C or below 0°C should be avoided.

#### 10.5. Incompatible materials

Other cleaning and disinfecting agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

Targeted toxicological studies have not been performed on the product. The human health assessment was made solely on the basis of its composition, the toxicological data for each component, the concentrations and classifications given in section 3, and the concentration limits of Regulation (EC) No 1272/2008. The product is physically hazardous, flammable.

#### 11.1. Information on toxicological effects

- a) **Acute toxicity:** no special information available.
- b) **Skin corrosion / irritation:** no special information available.
- c) **Serious eye damage / eye irritation:** no special information available.
- d) **Respiratory or skin sensitization:** no special information available.
- e) **Germ cell mutagenicity:** no special information available.
- f) **Carcinogenicity:** no specific information available
- g) **Reproductive toxicity:** no specific information available
- h) **Specific target organ toxicity - single exposure (STOT):** no specific information available
- i) **Specific target organ toxicity - repeated exposure (STOT):** no special information available
- j) **Aspiration hazard:** no special information available

### SECTION 12: Ecological information

Ecological studies have not been performed on the product. It has been assessed solely on the basis of its composition, the data for each component, the concentrations and classifications given in section 3, and the concentration limits of Regulation (EC) No 1272/2008.

The preparation is not classified as dangerous for the environment.

**12.1. Toxicity:** no special information available.

**12.2. Persistence and degradability:** no special information available.

**12.3. Bioaccumulative potential:** no special information available.

**12.4. Mobility in soil:** no special information available.

**12.5. Results of PBT and vPvB assessment:** Not applicable.

**12.6. Other adverse effects:** No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The European Directive on Waste and Hazardous Waste sets out guidelines for the treatment of product residues and packaging waste

### SECTION 14: Transport information

<b>14.1. UN-number</b>	1170
<b>14.2. UN proper shipping name</b>	Ethanol solution
<b>14.3. Transport hazard class(es)</b>	3
<b>14.4. Packing group</b>	II.
<b>14.5. Environmental hazards</b>	none
<b>14.6. Special precautions for user</b>	none
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	not applicable

### SECTION 15: Regulatory information

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

Considered European Union laws and regulations:

- Regulation (EC) No 1272/2008 on Classification, Labeling and Packaging of substances and mixtures (CLP Regulation)
- Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- REGULATION 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (Text with EEA relevance)
- Regulation (EU) 528/2012 on the marketing and use of biocidal products

Related Hungarian laws and regulations:

- 2000. year XXV. Act on Chemical Safety
- Decree 44/2000 (XII.27.) EüM on the detailed rules of certain procedures and activities related to dangerous substances and dangerous preparations
- Joint Decree 38/2003 (VII.7.) ESzCsM-FVM-KvVM on the conditions for the production and placing on the market of biocidal products
- 5/2020. (II. 6.) ITM Decree on the protection of the health and safety of workers exposed to chemical pathogens
- CLXXXV of 2012. Act on Waste Management
- Decree 72/2013 VM KöM on the list of wastes
- 225/2015 Government Decree on the conditions for carrying out activities related to hazardous waste
- 2015 LXXXIX. Act promulgating the consolidated text of Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), as amended and supplemented in 2011

**15.2. Chemical safety assessment** No chemical safety report was prepared for the mixture.

### SECTION 16: Other information

Abbreviations used in the safety data sheet:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service

HTIS	Health Toxicology Information Service
PBT:	Persistent, Bioaccumulative, Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
TWA	Time weighted Average the average exposure to a contaminant to which workers may be exposed without adverse effect over a period such as in an 8-hour day or 40-hour week (an average work shift).
STEL	Short-Term Exposure Limit limit value above which exposure to a chemical substance should not occur and usually relates to a 15 minute reference period.
UN	four-digit numbers that identify hazardous materials, and articles (such as explosives, flammable liquids, oxidizers, toxic liquids, etc.) in the framework of international transport. Given by the United Nations
vPvB:	very Persistent, very Bioaccumulative

Full text of classifications:

Flam. Liq.                      Flammable liquid

Full text of H-statements:

H225            Highly flammable liquid and vapour.  
H226            Flammable liquid and vapour.

Information for readers:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The safety data sheet describes the product in terms of safety requirements. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

**End of safety data sheet**