

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

Zazu Gél

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

Ready-to-use hand sanitizer gel for consumer and professional use.

Biocide product type: PT 1

Field of use: hygienic hand sanitizing.

Antimicrobial spectrum: bactericidal, fungicidal, selective virucidal (adenoviral and noroviral inactivation), tuberculocidal

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

Information about the distributor:

AGRÁR-Bioetanol Kft.

7200 Dombóvár, Birkamajor

Tel: + 36 74 465 203

1.3.1. Responsible person:

Agrár-Bioetanol Energiatermelő Kft.

E-mail:

info@agrarbioetanol.hu

1.4. Emergency telephone number:

Please fill in

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP):

Flammable liquids, Hazard Category 3 – H226

Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335

Hazard statements:

H226 – Flammable liquid and vapour.

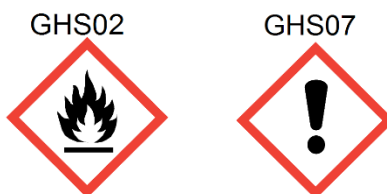
H335 – May cause respiratory irritation.

2.2. Label elements:

Active substance content: Ethanol (CAS: 64-17-5) 71 m/m %

Biphenyl-2-ol (CAS: 90-43-7) 0.16 m/m %

Components that define the hazards: Biphenyl-2-ol



WARNING

Hazard statements:

H226 – Flammable liquid and vapour.

H335 – May cause respiratory irritation.

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.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 – Call a POISON CENTER/doctor if you feel unwell.

Note:

Biocide product, it should be packed/labelled according to Regulation (EU) No. 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.

The ingredients of the product do not meet the criteria for PBT or vPvB substances in accordance with Annex XIII of Regulation (EC) No 1907/2006.

Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Description: Mixture of the following hazardous ingredients with water and other ingredients: (e.g. perfume 0.086 %, colorong agent 0.005 %):

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Ethanol Index number: 603-002-00-5	64-17-5	200-578-6	-	> 70 - < 75	GHS02 Danger	Flam. Liq. 2	H225
2-Phenylphenol (ISO) / Biphenyl-2-ol Index number: 604-020-00-6	90-43-7	201-993-5	-	> 0.1 - < 0.2	GHS07 GHS09 Warning	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Aquatic Acute 1	H319 H335 H315 H400
Benzyl alcohol Index number: 603-057-00-5	100-51-6	202-859-9	01-2119492630-38	> 0.8 - < 12	GHS07 Warning	Acute Tox. 4 Acute Tox. 4	H302 H332

The product does not contain any other substances considered as hazardous, or the concentration of hazardous substances does not reach the extent stated in the relevant regulations, therefore it is not necessary to indicate them in the safety data sheet.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: In case of complaints, obtain medical help. Keep the victim warm.

Personal protective equipment for the first aiders: For information on personal protective equipment, see Section 8.

INGESTION:

Measures:

- Give the victim plenty of water to drink.
- Induce vomiting.
- In case of complaints, obtain medical help.

INHALATION:

Measures:

- Keep the victim warm and let him rest.
- In case of complaints, obtain medical help.

SKIN CONTACT:

Measures:

- The product is used for disinfecting the skin (hands).

EYE CONTACT:

Measures:

- In case of contact with eyes flush with water holding eyelids apart (for at least 15 minutes).

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

Acute effects: irritates the respiratory tracts.

Delayed effects: may affect the respiratory tracts, causing headache, fatigue.

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

In case of ingestion, gastric lavage (there is a risk if aspiration – in case of unconscious victim, gastric lavage without intubation is prohibited).

Symptomatic treatment: naloxone is recommended.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Water fog, foam, dry chemical, carbon dioxide.

5.1.2. Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture:

Flammable liquid and vapour.

Combustible, its vapours are heavier than air. At room temperature, creates an explosive mixture with air. Keep away from ignition sources.

In case of fire, creates hazardous, combustible gases or vapours.

5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

Do not inhale vapours/sprays.

Ensure fresh air.

6.1.2. For emergency responders:

For information on personal protective equipment, see Section 8.

6.2. Environmental precautions:

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. Methods and material for containment and cleaning up:

Collect the spilled product with non-combustible absorbent (e.g. sand, perlite, vermiculite, Chemisorb®), collect and dispose of the product as hazardous waste.

6.4. Reference to other sections:

For further and detailed information see Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Observe conventional hygiene precautions.

Do not mix with other cleaning or disinfecting agents.

Use only on skin without damage.

Do not use on mucous membranes.

Use electric devices only after complete dryness.

Technical measures:

Ensure adequate ventilation.

Wear appropriate personal protective equipment. Protective equipment must be selected according to the technology.

Precautions against fire and explosion:

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

7.2. **Conditions for safe storage, including any incompatibilities:**

Technical measures and storage condition:

Keep in the original, damage-free, unopened package, in a dry, well-ventilated place, away from direct sunlight, open flames, spark and ignition sources, at room temperature.

Shelf life is 3 years from the date of manufacture.

Incompatible materials: See Section 10.5.

Packaging material: See the authorisation.

7.3. **Specific end use(s):**

No specific application other than those mentioned in section 1.2 is expected.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):

The components of the mixture are not regulated with exposure limit value.

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. **Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. **Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin. Technical measures to ensure safe working conditions take priority over the use of personal protective equipment.

8.2.2. **Individual protection measures, such as personal protective equipment:**

1. **Eye/face protection:** Avoid contact with eyes. In case of transferring large quantities, the use of appropriate protective glasses is recommended (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
 - a. **Hand protection:** Not required.
 - b. **Other:** Use appropriate protective clothing.
3. **Respiratory protection:** Ensure appropriate ventilation in case of formation of vapours and sprays.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on basic physical and chemical properties:**

Parameter	Value / Test method / Remarks
1. Physical state	gel
2. Colour	pale pink
3. Odour, odour threshold	alcoholic
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	flammable
7. Lower and upper explosion limit	no data*
8. Flash point	≥23 - ≤60 °C
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	7.5 – 8.0 (20 °C)
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	unlimited miscibility no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	0.85 – 0.9 g/cm ³ (20 °C)
17. Relative vapour density	no data*
18. Particle characteristics	no data*

9.2. **Other information:**

9.2.1. **Information with regard to physical hazard classes:**

Explosive properties: not explosive.

Oxidising properties: non-oxidising.

9.2.2. **Other safety characteristics:**

No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:**

In case of intended use, no hazardous reactions expected.

10.2. **Chemical stability:**

Stable under normal conditions.

10.3. **Possibility of hazardous reactions:**

In case of normal conditions, no hazardous reactions expected.

10.4. **Conditions to avoid:**

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

10.5. **Incompatible materials:**

Oxidizing agents.

10.6. **Hazardous decomposition products:**

No hazardous 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.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
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.
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: May cause respiratory irritation.
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.
- 11.1.1. Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. Relevant toxicological properties:**
No data available about the product.
Information about the components:
Ethanol (CAS: 64-17-5):
Acute toxicity:
LD₅₀ (oral, rat): 7728 mg/kg
LC₅₀ (inhalation, rat): 114 mg/l
- 11.1.3. Information on likely routes of exposure:**
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**
Skin: no irritating effect.
Eyes: slight irritation.
Inhalation: may cause the irritation of mucous membranes.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**
May cause respiratory irritation.
- 11.1.6. Interactive effects:**
No data available.
- 11.1.7. Absence of specific data:**
No information.
- 11.2. Information on other hazards:**
Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**
The mixture is not classified as hazardous for the environment.
Information about the components:
Ethanol (CAS: 64-17-5):
LC₅₀ (fish): 1293 mg/l
EC₅₀ (water flea and other aquatic invertebrates): 72.6 mg/l
IC₅₀ (algae): 512.7 mg/l
EC₅ (bacteria): 5854 mg/l
- 12.2. Persistence and degradability:**
No data available.
- 12.3. Bioaccumulative potential:**
Bioaccumulation is not expected (log Pow: <1).
Information about the components:
Ethanol (CAS: 64-17-5):
COD: 1.99 – 2.11 g/g
- 12.4. Mobility in soil:**
No data available.

- 12.5. **Results of PBT and vPvB assessment:**
The ingredients of the product do not meet the criteria for PBT or vPvB substances in accordance with Annex XIII of Regulation (EC) No 1907/2006.
- 12.6. **Endocrine disrupting properties:**
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
- 12.7. **Other adverse effects:**
It is forbidden to discharge the mixture, its unused residues, packaging material into living water, soil or public sewers.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. **Waste treatment methods:**
Disposal according to the local regulations.
- 13.1.1. **Information regarding the disposal of the product:**
Dispose of in accordance with applicable regulations.
Product residues are considered as hazardous waste.
Elimination can be carried out with the help of a specialised waste treatment organisation.
List of Waste Code:
07 06 01* aqueous washing liquids and mother liquors
*: hazardous waste.
- 13.1.2. **Information regarding the disposal of the packaging:**
Dispose of in accordance with applicable regulations.
The uncleaned (empty) packaging has to be disposed of in the same manner as the product itself.
Empty containers should be treated as household waste after rinsing with water.
List of Waste Code:
15 01 02 plastic packaging
- 13.1.3. **Physical/chemical properties that may affect waste treatment options shall be specified:**
No data available.
- 13.1.4. **Sewage disposal:**
No data available.
- 13.1.5. **Special precautions for any recommended waste treatment:**
No data available.

SECTION 14: TRANSPORT INFORMATION

- 14.1. **UN number or ID number:**
UN 1993
- 14.2. **UN proper shipping name:**
FLAMMABLE LIQUID, N.O.S.
- 14.3. **Transport hazard class(es):**
3
- 14.4. **Packing group:**
III
- 14.5. **Environmental hazards:**
Environmentally hazardous: No.
- 14.6. **Special precautions for user:**
No relevant information available.
- 14.7. **Maritime transport in bulk according to IMO instruments:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products

The product falls under the scope of Directive 2012/18/EU (Seveso III).

Seveso category:

P5.c FLAMMABLE LIQUIDS

Lower-tier requirements (in tonnes): 5000

Upper-tier requirements (in tonnes): 50,000

15.2. **Chemical safety assessment:** Has not been carried out.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:

The safety data sheet has been revised according to Regulation (EU) 2020/878.

Changes compared to the previous version: Sections 3.2, 7.1 and 16 of the safety data sheet have been modified.

This safety data sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

Literature references / data sources:

Previous version of the safety data sheet (09. 08. 2024, version 2).

Safety data sheet issued by the distributor (10. 01. 2025, version 3, HU)

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Flammable liquids, Hazard Category 3 – H226	Based on test methods (test data)
Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation – H335	Based on expert judgement (manufacturer's data)

Relevant hazard statements (code and full text) of Sections 2 and 3:

H225 – Highly flammable liquid and vapour.

H226 – Flammable liquid and vapour.

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H335 – May cause respiratory irritation.

H400 – Very toxic to aquatic life.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EuPCS: European Product Categorisation System.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC₅₀: Lethal concentration resulting in 50 % mortality.
LD₅₀: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.

OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Date of issue: 14. 05. 2024
Date of revision: 24. 02. 2025
Version: 3

Safety data sheet was prepared by:
MSDS-Europe
International branch of ToxInfo Kft.

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