helca

Safety Data Sheet

Date of issue: 20 May 2020 Version 2 Revision 0

HELCA DRY HAND WASH AND DISINFECTION GEL

Section 1. Identification of the substance/mixture and of the company/undertaking

Subsection 1.1 Product identifier:

Trade name: **Helca dry hand wash and disinfection gel**

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

Application / use: Non-rinse personal hygiene product / hand skin disinfectant. Do not apply gel to eyes and mucous tissue

Subsection 1.3 Details of the supplier of the safety data sheet

Company: DCP Hemigal d.o.o. – manufacturer
Address: Tekstilna 97, 16000 Leskovac, Serbia
Phone: +381(0)16 255 144,
Fax: +381(0)16 250 246
e-mail: info@dcp-hemigal.rs

Subsection 1.4 Emergency telephone number

National Poison Control Centre Phone: 011-36-08-440 available 24 hours a day

Section 2. Hazards identification

Subsection 2.1 Classification of the substance

Classification according to the Rulebook on Classification, Packaging, Labelling and Advertising of Chemicals and Certain Products in Accordance with the Globally Harmonised System of Classification and Labelling (*Official Gazette od RS* Nos. 105/13, 52/17, 21/19):
Flammable liquid 2; H225
Abbreviations are explained in Section 16.

Subsection 2.2 Label elements

Classification according to the Rulebook on Classification, Packaging, Labelling and Advertising of Chemicals and Certain Products in Accordance with the Globally Harmonised System of Classification and Labelling (*Official Gazette od RS* Nos. 105/13, 52/17, 21/19):

Pictogram GHS02

Signal word: DANGER
Hazard statements:
H225 – Highly 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 sources of ignition.

No smoking.
P233 – Keep container tightly closed.

Subsection 2.3 Other hazards

Possible eye and mucous tissue irritation.

Section 3. Composition / information on ingredients

Subsection 3.1 Substances

Not applicable.

Subsection 3.2 Mixtures

Hazardous substances:	concentration (m/m %)	EINECS	CAS	CLP/GHS
Ethanol	67	200-578-6	64-17-5	Flammable liquid 2; H225

Section 4. First aid measures

Subsection 4.1 Description of first aid measures

Inhalation: Take the contaminated person out to fresh air.

Skin contact: Harmless in normal use. In case of irritation or overdosage beyond the recommended 3-5 ml per hand skin, wash skin with warm water and soap.

Eye contact: Rinse thoroughly with warm water.

Ingestion: Drink as much water as possible and induce vomiting without vomiting agents.

Get medical attention in all cases if the contaminated person feels unwell.

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

Possible mucous tissue and eye irritation.

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

Get medical attention in all cases if a person feels unwell.

Section 5. Firefighting measures

Subsection 5.1 Extinguishing media

Appropriate extinguishing media: If a fire is in immediate vicinity or the mixture itself is exposed to fire, use water or CO_2 powder.

Flammable. Vapours are heavier than air. Combustible mixtures can form with air. Take precautions against electrostatic discharge. Possible release of CO when burning.

Subsection 5.2 Special hazards arising from the substance or mixture

Carbon monoxide as a product of incomplete combustion.

Subsection 5.3 Advice for firefighters

Standard protective equipment.

Section 6. Accidental release measures

Subsection 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate the possibility of open flame or embers near gel spillage. Do not allow unqualified persons near the spillage area. If spillage occurs indoors, air the room. If spilled on a flat, non-absorbent surface free from electrostatic charge, carefully collect spilled gel in receptacles using a shovel; if electrostatic charge can occur, mop the gel using absorbent equipment and rinse the surface with water when finished, using protective mask, gloves and clothing.

Subsection 6.2 Environmental precautions

Gel spilled on an absorbent surface should be quickly covered with dry earth or sand and then all together placed in an appropriate container. Do not rinse gel with water into waterways.

Subsection 6.3 Methods and material for containment and cleaning up

a) If spillage occurs outdoors, try to place an improvised barrier around the spilled product (earth, sand) until collection and safe disposal is possible.

b) Material spilled onto flat surfaces should be collected by shovels or similar improvised equipment.

c) Avoid the use of running water. Prevent contact between spilled material and surface water.

Subsection 6.4 Reference to other sections

Exposure limits: (see section 8)

Waste treatment: see subsection 13.1

Section 7. Handling and storage

Subsection 7.1 Precautions for safe handling

Protective clothing and protective gloves are required on the production site. Collect spilled material from the floor using brush and shovel and dispose of in a container. Do not rinse from surfaces using water and detergents until the product is collected. No eating, drinking or smoking is allowed at the plant. Wash hands with water in case of prolonged contact with this gel. Gel production, storage, transport and use areas must be designated as no smoking areas and provided with good general and forced ventilation.

Subsection 7.2 Conditions for safe storage, including any incompatibilities

Packaged product should be stored on a pallet raised at least 150 mm above ground, in a dark storage area at ambient temperature. Incompatible materials: oxidants, acids, alkalis and electrolytes.

Subsection 7.3 Specific end use(s)

Not intended for other use.

Section 8. Exposure controls

Subsection 8.1 Control parameters

Workplace exposure limit for ethyl alcohol:

DNEL values		
Oral Dermal	Long-term exposure – systemic effects, consumers Acute exposure – systemic effects,	87 mg/kg 343 mg/kg

Inhalation	consumers Long-term exposure – systemic effects, consumers Acute exposure - local effects, workers Long-term exposure – systemic effects, workers Acute exposure - local effects, consumers Long-term exposure - systemic effects, consumers	 206 mg/kg 1900 mg/m^3 950 mg/m^3 950 mg/m^3 114 mg/m^3
PNEC values		
Water environment - freshwater		0.96 mg/l
Water environment – sea water		0.79 mg/l
Water environment - water, intermittent release		2.75 mg/l
Water environment - sediment		3.6 mg/kg
soil		0.63 mg/kg
wastewater treatment plant		580 mg/l

At the workplace, personal protective equipment (clothing, gloves) and organic solvent vapour respirator must be worn and natural and forced ventilation must be provided.

Subsection 8.2 Exposure control and individual protection measures

Individual protection

- Hand protection: Not necessary
- Skin protection: Not necessary
- Eye protection: Avoid contact of the product with eyes
- Ingestion: Do not eat, drink or smoke during use
- Environmental exposure control: See sections 12/13

Keep packaged product tightly closed after each use.

Section 9. Physical and chemical properties

Subsection 9.1 1 Information on basic physical and chemical properties

a) Physical state and colour: Liquid, gel
b) Odour: Characteristic, alcoholic
c) Odour threshold: Not known
d) pH value: 6.4 - 7.1
e) Melting point / freezing point (^{0}C) around -117^{0}C (applies to ethanol)
f) Initial boiling point and boiling range: 80-100^{0}C
g) Flash point (^{0}C): 22^{0}C
h) Evaporation rate: Not applicable
i) Flammability: Highly flammable
j) Upper/lower explosive limits: 3.3 / 19 v/v (applies to ethanol)
k) Vapour pressure (20^{0}C): No available data
l) Vapour density: No available data

m) Oxidising properties:	None
n) Relative density (20^0C):	0.85-0.95
o) Solubility(ies):	Complete in water
p) Partition coefficient: n-octanol/water:	No available data
q) Auto-ignition temperature (^{0}C)	No available data
r) Decomposition temperature	No available data
s) Viscosity	No available data
t) Explosive properties	No available data
u) Oxidising properties	None

Subsection 9.2 Other information

a) Fat and oil solubility	Insoluble
b) Conductivity	Conductible
Redox potential	Not known

Section 10. Reactivity and stability

Subsection 10.1 Reactivity

Not reactive.

Subsection 10.2 Chemical stability

The product is a mild acid, reacts with alkalis

Subsection 10.3 Possibility of hazardous reactions

Not known.

Subsection 10.4 Conditions to avoid

Heating and open flame.

Subsection 10.5 Incompatible materials

Acids, alkalis, electrolytes.

Subsection 10.6 Hazardous decomposition products

Not known.

Section 11. Toxicological information

Subsection 11.1 Information on toxicological effects

For ethanol 96%:
LD50 – rat (orally): 10470 mg/kg
LD50 – mouse (orally): 8350 mg/kg
LD50 – rat (inhalation) : 12.7 mg/l 4h

b) Irritation: Based on the available data, the product is not classified as an eye irritant.
c) Corrosion: Based on the available data, the product is not classified as a mixture that can cause severe eye damage.
d) Sensitisation: Based on the available data, the product is not classified as sensitising.
e) Repeated dose toxicity: Based on the available data, the product does not meet the classification criteria.

f) Carcinogenicity: Based on the available data, the product does not meet the classification criteria.
g) Mutagenicity: Based on the available data, the product does not meet the classification criteria.
h) Reproductive toxicity: Based on the available data, the product does not meet the classification criteria.

- Likely routes of exposure: Peroral, eye exposure.
- Symptoms related to the physical, chemical and toxicological properties: Mild mucous tissue and eye irritation possible. Nausea in case of ingestion.
- Delayed and immediate effects as well as chronic effects from short and long-term exposure: Nausea. Systemic effects include euphoria, dizziness, light-headedness, narcosis, difficult breathing.
- Interactive effects: not known
- Mixture versus substance information: Highly flammable liquid and vapour

Other toxicological information:

- None

Section 12 Ecotoxicological information

Subsection 12.1 Toxicity

For ethanol 96%:

To fish:	LC50: 13000 mg/l; 96 h
	LC50: 11200 mg/l; 24 h
To algae:	EC50: 275 mg/l; 72 h
	EC50: 12900 mg/l; 48 h
To daphnia:	EC50 Daphnia magna: 12340 mg/l; 48 h

Subsection 12.2. Persistence and degradability

For ethanol 96%
Biodegradability 94% - readily biodegradable (OECD test manual 301E)

Subsection 12.3. Bioaccumulative potential:

For ethanol 96%:
n-octanol/water partition coefficient: no data available

Subsection 12.4. Mobility in soil:

Readily mobile in soil.

Subsection 12.5. Results of PBT and vPvB assessment:

No bioaccumulative ingredients.

Subsection 12.6. Other adverse effects:

None known

Section 13. Disposal considerations

Subsection 13.1 Waste treatment methods

(In accordance with the Law on Packaging and Packaging Waste (*Official Gazette of RS* Nos. 36/09,95/18); the Law on Waste Management (*Official Gazette of RS* Nos. 36/09, 88/10,

14/16, 95/18); the Law on Occupational Safety and Health (*Official Gazette of RS* Nos. 101/05, 91/15, 113/17)

a) Filter from collected bulk material only if it contains larger granules of soil and/or sand etc.

b) Physical/chemical properties that may affect waste treatment options

- Remove mechanical contamination with soil or sand by filtering,
- Possible treatment is considered if there is dirt in the material (including solving in an appropriate solvent and decanting etc.)

c) Special precautions for any recommended waste treatment option.

- During any wastewater treatment, care must be taken to ensure that waste containing the active ingredient is not released in municipal water or waterways.

Section 14. Transport information

Subsection 14.1 UN number – UN 1993
Subsection 14.2 UN proper shipping name: - FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHYL ALCOHOL)
Subsection 14.3 Transport hazard class(es): - 3
Subsection 14.4 Packing group: - II
Subsection 14.5 Environmental hazards: - NONE
Subsection 14.6 Special precautions for user: - Limited quantities 1 l
Restrictions for tunnels (D/E)
Subsection 14.7 Transport in bulk: not relevant

Section 15. Regulatory information

Subsection 15.1 Safety, health and environmental regulations

- Law on Chemicals, *Official Gazette of RS* Nos. 36/09, 88/10, 92/11, 93/12, 25/15
- Rulebook on Classification, Packaging, Labelling and Advertising of Chemicals and Certain Products in Accordance with the Globally Harmonised System of Classification and Labelling (*Official Gazette of RS* Nos. 105/13, 52/17, 21/19)
- Rulebook on the Content of the Safety Data Sheet (*Official Gazette of RS* No. 100/11)
- Law on Waste Management (*Official Gazette of RS* Nos. 36/09, 88/10,14/16, 95/18)
- Law on Packaging and Packaging Waste (*Official Gazette of RS* Nos. 36/09, 95/18)
- Law on Occupational Safety and Health (*Official Gazette of RS* Nos. 101/05, 91/15, 113/17)
- Rulebook on Preventive Occupational Safety and Health Measures when using Personal Protective Means and Equipment (*Official Gazette of RS* Nos. 92/08, 101/18)
- Law on Fire Protection (*Official Gazette of RS* Nos. 111/09,20/15, 87/18)
- The product label contains the following information:

Section 16. Other information

Revisions: Not revised

List of all relevant hazard statements (H labels):

H225 - Highly flammable liquids and vapours

Abbreviations and acronyms:

CLP/GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EC Number (European Community Number) – a seven-digit identifier assigned to each substance that is commercially available in the European Union.

CAS (Chemical Abstract Service) Number – unique identifier of a substance

LD50 – the dose of a toxic substance which causes the death of 50% of the test population

LC50 – lethal concentration of toxic gaseous substances in inhaled air which causes the death of 50% of the test population

DNEL – Derived No-Effect Level, the level of exposure to a substance below which no adverse effects are measured.

P PNEC – Predicted No-Effect Concentration, the concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured

OECD – Organisation for Economic Cooperation and Development

EC50 – the concentration of a compound which induces a response halfway between the baseline and maximum after a specified exposure time

ECHA – European Chemicals Agency

Key literature references and sources of data:

Manufacturer's Safety Data Sheet and website, ECHA website www.echa.europa.eu

Assessment method applied to the classification data in accordance with the CLP/GHS Regulation:

The classification in accordance with the CLP/GHS Regulation was done through the application of the additivity formula and the method of summation of classified ingredients.