

Based on Act 1907/20006/EK Amendment 2015/830

Klarex Hand Sanitizer (300 ml/500 ml/1000 ml)

Date of issue: 09.03.2020

Version number: 1.0

Section 1: Chemical Product and Company Identification

1.1. Product Identifier

Product name: Klarex CHS Hand Sanitizer

1.2. Adequate confirmed use of the substance or mixture, contra-indications

Biocide product. Type of biocide product: PT1.

Hand sanitizer.

Areas of application:

For hygienic hand disinfection in medical care, catering sectors, public institutions, schools and households, and also for travelling and for hiking.

Liquid ready to use. Use without dilution. Squeeze 3-4 ml KLAREX CRS Hand Sanitizer in your dry palm then rub hands together thoroughly and evenly for 30 seconds until dry. Rub it in dry skin.

Antimicrobial spectrum: antibacterial, antifungal and antiviral agent

1.3. Details of the supplier of the safety data sheet

Manufacturer and supplier: Hungaro-Gal Ltd.

Address: 7400 Kaposvár, Jókai u. 5/a

Telephone number: +36 82 526057

Email: hungarogal@vanessaresearch.com

1.4. Emergency telephone number

Toxicology Information Service (Egészségügyi Toxikológiai Szolgálat, ETTSZ)

Address: ETTSZ (1096 Budapest Nagyvárad tér 2.)

Telephone: +36-80/201-199 (call in case of emergency 0-24h, free of charge)

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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Definition of the product: mixture

Classification according to 1272/2008

Classification:

Flam. Liq. H225

Eye Dam. 1, H318

The Full Text for Classification and all Hazard Statements in Section 16.

2.2. Label elements

Pictogram(s)

GHS02



GHS05



Signal word: Warning

Hazard Statements:

H225 – Highly flammable liquid and vapour.

H318 – Causes serious eye damage.

Precautionary Statements:

P101 – If medical advice is needed, have product container or label at hand.

P102 – Keep out of reach of children.

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

P403+P235 – Store in a well-ventilated place. Keep cool.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P501 – Dispose of contents/container according to Act 225/2015. (VIII.7.) and 72/2013. (VIII.27.) VM.

Other warning: For external use only. Do not use for the disinfection of mucosa and around the eyes. Do not use on injured skin.

2.3. Other Hazard

None known.

Section 3: Composition/Information on Ingredients

3.1. Mixtures

Ingredients	CAS number	EU number	REACH registration number	Concentration v/v%	Classification	H-phrases
Ethanol	64-17-5	200-578-6	01-2119457610-43	80%	Flam. Liq. 2. (based on harmonized class.) Eye Irrit. 2. (based on Manufacturer MSDS)	H225 H319
Hydrogen peroxide	7722-84-1	231-765-0	01-2119485845-22-XXXX	0.125%	Ox. Liq. 1 Acute Tox. 4 Acute Tox. 4 (*) Skin Corr. 1A (based on harmonized class.) Eye Dam: 1 (based on Manufacturer MSDS)	H271 H302 H332 H314 H318

The Full Text for Classification and all Hazard Statements in Section 16.

Based on the current legal principles other ingredients of the mixture are either considered as non-hazardous components or their concentration in the mixture does not reach the level above which their presence is to be listed in the section of hazard classifications or is to be taken into consideration.

The exposure limits at the workplace, if available, are listed in Section 8.

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Section 4: First-aid Measures

Description of first-aid measures

Avoid eye contact and do not use on mucosa or injured skin. If any of these occurred, rinse with plenty of clean water for 10-15 minutes and get medical advice.

If inhaled	Remove person to fresh air loosen tight clothes and ensure convenient position. If necessary, artificial respiration is to be applied. In case of any complaint, the affected person shall be taken to a doctor.
If swallowed	If the affected person is conscious, mouth is to be rinse thoroughly and he/she shall drink water (2-4 cups). Immediately call a doctor.
If on skin	Not relevant if used properly.
IF IN EYES	Remove substance by rinsing cautiously with water for 10-15 minutes while constantly moving eyeballs. Remove contact lenses, if present and easy to do. Ask for the advice of an eye specialist.

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

If swallowed

Irritation, headache, confusion, dizziness, faint.

If inhaled

Cough, headache, tiredness, somnolence.

If on skin

Skin might become dry.

If in eyes

Redness, pain, irritation.

4.3. Indication of immediate medical attention and special treatment needed

No available data.

Symptomatic treatment.

Section 5: Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: water spray, dry powder, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media: large volume water spray

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting: no data available

The following combustion products occur: carbon-dioxide, carbon-monoxide, hydrogen-chloride

5.3. Advice for firefighters

Protective actions. In case of a big fire in a closed or poorly ventilated room protective clothing and breathing apparatus shall be worn. Liquid resulting from the fight is not to get into the soil, any surface water or drains. Tanks endangered because of the fire are to be removed, if possible.

Section 6: Accidental release measure**6.1. Personal precautions, protective equipment and emergency procedures**

On the location of the accident only well-trained workers in proper protective clothing are allowed. Proper ventilation is to be ensured. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Discharge of the substance and its contaminated waste into natural waters, drains or the soil is to be avoided. In case any environmental contamination occur, competent authorities are to be informed immediately.

6.3. Methods and material for containment and cleaning up

Discharge into drains or watercourses is to be avoided by covering the drains.

In case of spillage of a large amount, the spreading of the substance is to be stopped by dams. The substance is to be pumped and the residuals are to be dried with any non-combustible, absorbent material (e.g. dry soil, sand). The generated hazardous waste is to be stored in a labelled, closed container and then disposed of.

When collecting the waste, proper protective clothes is to be worn.

6.4. Reference to other sections

Further information in Sections 8 and 13.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes other than those specified in the instructions for use. Use only on intact skin.

Contact with the substance, the formation of vapours and inhalation of aerosols shall be avoided.

Standard hygiene procedures are to be followed.

Keep away from heat, sparks, open flame and hot surfaces.

Measures are to be taken to prevent electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. When opened and after finished usage, close it tightly.

7.3. Specific end uses(s)

The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient	Exposure limit In accordance with Act 25/2000.(IX.30.) EüM-SZCSM.	Comments																																							
Ethanol	<p>Allowed average concentration: 1900 mg/m³ Allowed peak concentration: 7600 mg/m³</p> <p>DNEL and PNEC values (for ethanol):</p> <table> <thead> <tr> <th></th> <th>Professionals</th> <th>Consumers</th> </tr> </thead> <tbody> <tr> <td>Local toxic effects</td> <td></td> <td></td> </tr> <tr> <td>Acute, inhalation</td> <td>DNEL 1900 mg/m³</td> <td>DNEL = 950 mg/m³</td> </tr> <tr> <td>Systematic toxic effects</td> <td></td> <td></td> </tr> <tr> <td>Chronic, oral</td> <td></td> <td>DNEL = 87 mg/kg/day</td> </tr> <tr> <td>Chronic, dermal</td> <td>DNEL = 343 mg/kg/day</td> <td>DNEL = 206 mg/kg/day</td> </tr> <tr> <td>Chronic, inhalation</td> <td>DNEL = 950 mg/m³</td> <td>DNEL = 114 mg/m³</td> </tr> <tr> <td>Environmental-protection aim</td> <td></td> <td></td> </tr> <tr> <td>Fresh water PNEC = 0,96 mg/l</td> <td></td> <td></td> </tr> <tr> <td>Sediment (Fresh water) PNEC = 3,6 mg/kg sediment</td> <td></td> <td></td> </tr> <tr> <td>Marine water PNEC = 0,79 mg/l</td> <td></td> <td></td> </tr> <tr> <td>Wastewater manager microorganisms PNEC = 580 mg/l</td> <td></td> <td></td> </tr> <tr> <td>Soil (agricultural) PNEC = 0,63 mg/kg soil</td> <td></td> <td></td> </tr> </tbody> </table>		Professionals	Consumers	Local toxic effects			Acute, inhalation	DNEL 1900 mg/m ³	DNEL = 950 mg/m ³	Systematic toxic effects			Chronic, oral		DNEL = 87 mg/kg/day	Chronic, dermal	DNEL = 343 mg/kg/day	DNEL = 206 mg/kg/day	Chronic, inhalation	DNEL = 950 mg/m ³	DNEL = 114 mg/m ³	Environmental-protection aim			Fresh water PNEC = 0,96 mg/l			Sediment (Fresh water) PNEC = 3,6 mg/kg sediment			Marine water PNEC = 0,79 mg/l			Wastewater manager microorganisms PNEC = 580 mg/l			Soil (agricultural) PNEC = 0,63 mg/kg soil			MSDS
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Hydrogen peroxide	<p>Occupational exposure limit in air: Does not contain any substance that has occupational exposure limit.</p> <p>Biological exposure limit Unknown</p> <p>DNELs: (Derived no-effect level (for human health): Unknown</p> <p>PNECs: (Predicted no-effect concentration (for environment)): Unknown</p>	MSDS																																							

Based on MSDS.

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8.2. Exposure controls

Protective equipment: Not necessary in case of proper usage of the product.

General protective and hygiene measures: Avoid eye contact, ingestion, or inhalation of vapours of the substance.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance:	colourless, clear solution
b) Odour:	slightly characteristic
c) Threshold Odour Number (TON):	Not determined for the mixture.
d) pH value:	Not determined for the mixture.
e) Melting point/freezing point:	Not determined for the mixture.
f) Starting boiling point and boiling interval:	Not determined for the mixture.
g) Flash point:	Not determined for the mixture.
h) Evaporation speed: not applicable	Not determined for the mixture.
i) Flammability (solid, gas):	Not applicable.
j) Upper/lower flammability or explosive limits:	Not applicable.
k) Vapour pressure:	Not determined for the mixture.
l) Vapour density:	Not applicable.
m) Relative density:	~0.81 g/cm ³
n) Solubility:	Free soluble with water.
o) Partition coefficient (n-octanol/water, 20°C):	logKow=-0.35
p) Autogenous ignition temperature:	363 °C
q) Decomposition point:	Not determined for the mixture.
r) Viscosity:	1.2 mPa*s
s) Explosive properties:	Not explosive, but its vapour can form an explosive mixture with air
t) Oxidative properties:	Not oxidative.

9.2. Further information

No further information is available.

Section 10: Stability and reactivity

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10.1. Reactivity

Ethanol reacts violently with strong oxidising and reducing agents, acids, anhydrous acids, alkaline metals and peroxides.

The vapour of the substance can form an explosive mixture with air.

10.2. Chemical stability

When handled properly and stored at the prescribed temperature and under the prescribed circumstances it is known to be stable.

10.3. Dangerous reactions

When stored and handled under proper circumstances, the possibility for any dangerous reaction is unknown.

10.4. Circumstances to avoid

Keep away from sunshine, heat, sparkles, open flames and hot surfaces.

Measures are to be taken to prevent electrostatic charge.

10.5. Incompatible substances

Unknown when handled and stored properly.

10.6. Dangerous decomposition products

Unknown when handled and stored properly.

Section 11: Toxicological information

No toxicological tests on this product were performed. Its classification for human health is considered only based on its compounds, toxicity data of each component, so all the given concentrations, classifications in Section 3, furthermore the specifications for concentration limits of Act 1272/2008/EK.

The product has physical danger, as it is flammable.

11.1. Information on toxicological effects

a) acute toxicity	Based on available data, the classification criteria are not met.
b) skin corrosion/skin irritation	Based on available data, the classification criteria are not met.
c) severe eye damage/eye irritation	It causes severe eye damage (H318); it causes severe eye irritation (H319).
d) respiratory or skin sensibility	Based on available data, the classification criteria are not met.
e) germ cell mutagenicity	Based on available data, the classification criteria are not met.

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f) carcinogenicity	Based on available data, the classification criteria are not met.
g) reproduction toxicity	Based on available data, the classification criteria are not met.
h) specific target organ toxicity (STOT) after single exposure	Based on available data, the classification criteria are not met.
i) specific target organ toxicity (STOT) after multiple exposure	Based on available data, the classification criteria are not met.
j) aspiration hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological information

No ecological tests on this product were performed. Its classification is considered only based on its compounds, data of each component, so all the given concentrations, classifications in Section 3, furthermore the specifications for concentration limits of Act 1272/2008/EK. The product is not classified as an ecological hazardous substance.

12.1 Toxicity

Ethanol: LC50 (fish, 24 h): 11200 mg/l
EC10/LC10 or NOEC for freshwater invertebrates: 9.6 mg/l (48 h)
EC10/LC10 or NOEC for freshwater algae: 11.5 mg/l (4 days)

12.2. Persistence and decomposability

Ethanol: Easily biodegradable, not accumulative in the environment.

Hydrogen peroxide: Unknown.

12.3. Bioaccumulation properties

Ethanol: Not bioaccumulative.

log Kow -0.35

BCF: 3.2

Product: Not determined for the product.

12.4. Mobility in soil

Ethanol: Very volatile, evaporates easily from the surface of the ground.

Hydrogen peroxide: Avoid discharge into the soil or drains.

Product: Not determined for the product.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

None known.

Section 13: Disposal considerations**13.1. Waste treatment methods**

Do not allow product, its unused residuals or its package to reach ground water, sewage system or soil.

The empty bottle can be recycled after rinsing and can be treated as municipal waste.

Any unused product or untreated package shall be disposed of as hazardous waste.

Disposal of empty uncleaned packaging and packaging containing residuals is to be performed in accordance with the current regulations.

Waste code. 15 01 10 *: packaging waste containing residues of or contaminated by dangerous substances.

Waste code for empty and cleaned, rinsed packaging material: 15 01 02 plastic packaging waste.

Section 14: Transport information**14.1. UN number: 1170****14.2. UN proper shipping name**

Ethanol solution

14.3. Transport hazard class(es)

3 (flammable liquid)

14.4. Packing group

II.

14.5. Environmental hazard(s)

No relevant information.

14.6. Special precautions for user

No relevant information.

14.7. Bulk shipping according to MARPOL agreement Annex II. and IBC regulation

Not applicable.

Section 15: Regulatory information

Relevant Community laws and regulations:

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- (EC) No 1272/2008 Regulation on Classification, Labelling and Packaging of substances and mixtures (CLP Regulation)
- (EC) No 1907/2006 Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- (EC) No 830/2015 Amendment of Regulation of the European Parliament and of the Council
- (EU) 528/2012 Regulation on the marketing and use of biocidal products

Relevant Hungarian laws and regulations:

- XXV. Act on Chemical Safety
- 44/2000 (XII.27.) EüM Decree on the detailed rules of certain procedures and activities related to dangerous substances and dangerous preparations
- 38/2003. (VII.7.) ESzCsM-FVM-KvVM joint decree on the conditions for the production and placing on the market of biocidal products
- 25/2000 (IX.30.) EüM-SzCsM Joint Decree on the chemical safety of workplaces
- XLIII of 2000. Act on Waste Management
- 16/2001. (VII.18.) KöM decree on the list of wastes
- 98/2001. (VI.15) Government Decree on the conditions for carrying out activities related to hazardous waste
- CLXXXV of 2012. Waste Act
- 442/2012. (XII. 29.) Government Decree on packaging and waste management activities related to packaging waste
- 72/2013. (VIII.27.) VM decree on the list of wastes

15.2. Chemical safety assessment

No chemical safety assessment was made for the product.

Section 16: Other information

Explanation of abbreviations and acronyms used in the safety data sheet:

ETTSZ: Toxicology Information Service (Egészségügyi Toxikológiai Tájékoztató Szolgálat)

CAS: Chemical Abstracts Service

LC50: Lethal concentration 50%

EC50 Effective concentration 50%

LD50 Lethal dose 50%

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NOAEL: No Observed Adverse Effect Level

NOAEC: No Observed Adverse Effect Concentration

Log Pow: Octanol-water partition coefficient (Kow)

PBT: Persistent, Bioaccumulative, Toxic

vPvB: very Persistent, very Bioaccumulative

UN: United Nations Number

Flam. Liq.: Flammable liquid

Ox Liq.: Oxidative liquid

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Corr.: skin corrosion

Full text of H statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H271 May cause fire or explosion; strong oxidiser.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/ ...

P501- Dispose of contents/container according to ... 225/2015. (VIII.7.) Gov. Decree, and 72/2013. (VIII.27.) VM regulation.

The mixture was classified according to the interpolation principles.

Notice to reader:

The data provided is based on current knowledge and is intended to describe the safety measures associated with the product, but do not guarantee quality characteristics and do not form the basis of a contractual relationship. It is the responsibility of the user to comply with the applicable regulations and provisions.