Medichief SoftCleanse Hand Sanitising Gel

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

1.1 Product identifier: Medichief SoftCleanse Hand Sanitising Gel

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

Relevant uses: Hand Sanitizer Gel

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Medichief Global
3 Lands End Way
Oakham
Rutland
UK
LE15 6RB

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319
Flam. Liq. 2: Flammable liquids, Category 2, H225

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger

Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P233: Keep container tightly closed
P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish
P403+P235: Store in a well-ventilated place. Keep cool
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description:

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

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Identification	Chemical name/Classification		Concentration
CAS: 64-17-5 EC: 200-578-6 Index: 603-002-00-5 REACH: 01-2119457610-43-XXXX	**ethanol**(1)	Self-classified	**50 - <75 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	
CAS: 7722-84-1 EC: 231-765-0 Index: 008-003-00-9 REACH: 01-2119485845-22-XXXX	**Hydrogen peroxide solution**(1)	Self-classified	**1 - <2.5 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Ox. Liq. 1: H271; Skin Corr. 1A: H314; STOT SE 3: H335 - Danger	
CAS: 85507-69-3 EC: 287-390-8 Index: Non-applicable REACH: 01-2120768972-38-XXXX	**Aloe vera, ext**(2)	Not classified	**<1 %**
	Regulation 1272/2008		
CAS: 68424-85-1 EC: 270-325-2 Index: Non-applicable REACH: 01-2119965180-41-XXXX	**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**(1)	Self-classified	**<1 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Met. Corr. 1: H290; Skin Corr. 1B: H314 - Danger	
CAS: 56-81-5 EC: 200-289-5 Index: Non-applicable REACH: 01-2119471987-18-XXXX	**Glycerol**(2)	Not classified	**<1 %**
	Regulation 1272/2008		
CAS: 97-59-6 EC: 202-592-8 Index: Non-applicable REACH: 01-2119953242-43-XXXX	**Allantoin**(2)	Not classified	**<1 %**
	Regulation 1272/2008		

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830
(2) Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO_2). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137 / The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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SECTION 7: HANDLING AND STORAGE (continued)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (EH40/2005 Workplace exposure limits):

Identification	Occupational exposure limits		
ethanol	WEL (8h)	1000 ppm	1920 mg/m³
CAS: 64-17-5 EC: 200-578-6	WEL (15 min)		
Hydrogen peroxide solution	WEL (8h)	1 ppm	1.4 mg/m³
CAS: 7722-84-1 EC: 231-765-0	WEL (15 min)	2 ppm	2.8 mg/m³
Glycerol	WEL (8h)		10 mg/m³
CAS: 56-81-5 EC: 200-289-5	WEL (15 min)		

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
ethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-17-5	Dermal	Non-applicable	Non-applicable	343 mg/kg	Non-applicable
EC: 200-578-6	Inhalation	Non-applicable	1900 mg/m³	950 mg/m³	Non-applicable
Hydrogen peroxide solution	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7722-84-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-765-0	Inhalation	Non-applicable	3 mg/m³	Non-applicable	1.4 mg/m³
Glycerol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 56-81-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-289-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	56 mg/m³
Allantoin	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 97-59-6	Dermal	Non-applicable	Non-applicable	284 mg/kg	Non-applicable
EC: 202-592-8	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
ethanol	Oral	Non-applicable	Non-applicable	87 mg/kg	Non-applicable
CAS: 64-17-5	Dermal	Non-applicable	Non-applicable	206 mg/kg	Non-applicable
EC: 200-578-6	Inhalation	Non-applicable	950 mg/m³	114 mg/m³	Non-applicable
Hydrogen peroxide solution	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7722-84-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-765-0	Inhalation	Non-applicable	1.93 mg/m³	Non-applicable	0.21 mg/m³
Glycerol	Oral	Non-applicable	Non-applicable	229 mg/kg	Non-applicable
CAS: 56-81-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-289-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	33 mg/m³
Allantoin	Oral	Non-applicable	Non-applicable	56.8 mg/kg	Non-applicable
CAS: 97-59-6	Dermal	Non-applicable	Non-applicable	284 mg/kg	Non-applicable
EC: 202-592-8	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PNEC:

Identification				
ethanol	STP	580 mg/L	Fresh water	0.96 mg/L
CAS: 64-17-5	Soil	Non-applicable	Marine water	0.79 mg/L
EC: 200-578-6	Intermittent	2.75 mg/L	Sediment (Fresh water)	3.6 mg/kg
	Oral	720 g/kg	Sediment (Marine water)	Non-applicable
Hydrogen peroxide solution	STP	4.66 mg/L	Fresh water	0.0126 mg/L
CAS: 7722-84-1	Soil	0.0023 mg/kg	Marine water	0.0126 mg/L
EC: 231-765-0	Intermittent	0.0138 mg/L	Sediment (Fresh water)	0.047 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.047 mg/kg
Glycerol	STP	1000 mg/L	Fresh water	0.885 mg/L
CAS: 56-81-5	Soil	0.141 mg/kg	Marine water	0.0885 mg/L
EC: 200-289-5	Intermittent	8.85 mg/L	Sediment (Fresh water)	3.3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.33 mg/kg
Allantoin	STP	10000 mg/L	Fresh water	1 mg/L
CAS: 97-59-6	Soil	0.256 mg/kg	Marine water	0.1 mg/L
EC: 202-592-8	Intermittent	10 mg/L	Sediment (Fresh water)	0.85 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.085 mg/kg

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks	CE CAT I		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+A1:2009 and EN ISO 374-1:2016

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	CE CAT II	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing	CE CAT III	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2012 EN ISO 20345:2011	Replace boots at any sign of deterioration.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	68 % weight
V.O.C. density at 20 ºC:	585.06 kg/m³ (585.06 g/L)
Average carbon number:	2
Average molecular weight:	46.1 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Fluid
Colour:	Colourless
Odour:	Alcohol
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	84 ºC
Vapour pressure at 20 ºC:	4331 Pa
Vapour pressure at 50 ºC:	20986.13 Pa (20.99 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	860.4 kg/m³
Relative density at 20 ºC:	0.86
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	21 ºC
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	370 ºC
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 20 ºC:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Precaution	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  IARC: Hydrogen peroxide solution (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
ethanol	LD50 oral	6200 mg/kg	Rat
CAS: 64-17-5	LD50 dermal	20000 mg/kg	Rabbit
EC: 200-578-6	LC50 inhalation	124.7 mg/L (4 h)	Rat
Hydrogen peroxide solution	LD50 oral	1193 mg/kg	Rat
CAS: 7722-84-1	LD50 dermal	4060 mg/kg	Rat
EC: 231-765-0	LC50 inhalation	11 mg/L (4 h)	Rat
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 oral	500 mg/kg	Rat
CAS: 68424-85-1	LD50 dermal	Non-applicable	
EC: 270-325-2	LC50 inhalation	Non-applicable	
Glycerol	LD50 oral	12600 mg/kg	Rat
CAS: 56-81-5	LD50 dermal	Non-applicable	
EC: 200-289-5	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
ethanol	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
CAS: 64-17-5	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-578-6	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
Hydrogen peroxide solution	LC50	16.4 mg/L (96 h)	Pimephales promelas	Fish
CAS: 7722-84-1	EC50	7.7 mg/L (24 h)	Daphnia magna	Crustacean
EC: 231-765-0	EC50	2.5 mg/L (72 h)	Chlorella vulgaris	Algae
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LC50	0.85 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 68424-85-1	EC50	0.016 mg/L (48 h)	Daphnia magna	Crustacean
EC: 270-325-2	EC50	0.026 mg/L (72 h)	Desmodesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
ethanol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 64-17-5	COD	Non-applicable	Period	14 days
EC: 200-578-6	BOD5/COD	0.57	% Biodegradable	89 %
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 68424-85-1	COD	Non-applicable	Period	Non-applicable
EC: 270-325-2	BOD5/COD	Non-applicable	% Biodegradable	60 %
Glycerol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 56-81-5	COD	Non-applicable	Period	14 days
EC: 200-289-5	BOD5/COD	Non-applicable	% Biodegradable	63 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
ethanol	BCF	3
CAS: 64-17-5	Pow Log	-0.31
EC: 200-578-6	Potential	Low
Glycerol	BCF	3
CAS: 56-81-5	Pow Log	-1.76
EC: 200-289-5	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
ethanol	Koc	1	Henry	4.61E-1 Pa·m³/mol
CAS: 64-17-5	Conclusion	Very High	Dry soil	Yes
EC: 200-578-6	Surface tension	2.339E-2 N/m (25 ºC)	Moist soil	Yes
Hydrogen peroxide solution	Koc	Non-applicable	Henry	7.5E-4 Pa·m³/mol
CAS: 7722-84-1	Conclusion	Non-applicable	Dry soil	No
EC: 231-765-0	Surface tension	Non-applicable	Moist soil	No
Glycerol	Koc	Non-applicable	Henry	Non-applicable
CAS: 56-81-5	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-289-5	Surface tension	6.516E-2 N/m (25 ºC)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Land & Air transport for dangerous goods:

Application of ADR 2019 (Directive 94/55/CE) & IATA / ICAO 2020:

14.1	**UN Number:**	UN1170
14.2	**UN proper shipping name:**	ETHANOL IN SOLUTION (ETHYL ALCOHOL IN SOLUTION)
14.3	**Transport hazard class(es):**	3
	Tags:	3
14.4	**Packing Group:**	II
14.5	**Environmental hazards:**	None
14.6	**Special precautions for users:**	
	Special provisions:	144, 601
	Tunnel restriction codes:	D/E
	Physical and chemical properties:	See section 9
	Limited quantities:	1L
14.7	**Transport in bulk, in accordance with Annex II to the MARPOL Convention and the IBC Code:**	Not relevant

Sea transport for dangerous goods:

Application of IMDG 39-18:

14.1	**UN Number:**	UN1170
14.2	**UN proper shipping name:**	ETHANOL IN SOLUTION (ETHYL ALCOHOL IN SOLUTION)
14.3	**Transport hazard class(es):**	3
	Tags:	3
14.4	**Packing Group:**	II
14.5	**Environmental hazards:**	None
14.6	**Special precautions for users:**	
	Special provisions:	144, 601
	EmS codes:	F-E, S-D
	Physical and chemical properties:	See section 9
	Limited quantities:	1L
	Separation class:	Not relevant
14.7	**Transport in bulk, in accordance with Annex II to the MARPOL Convention and the IBC Code:**	Not relevant

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SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains ethanol, Hydrogen peroxide solution.

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: ethanol (Product-type 1, 2, 4, 6) ; Hydrogen peroxide solution (Product-type 1, 2, 3, 4, 5, 6, 11, 12) ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (Product-type 1, 2, 3, 4, 8, 10, 11, 12, 22)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Relevant instructions for use:

Medichief SoftCleanse Hand Sanitising Gel can be applied by various means. For example by direct pouring from the bottle or with mechanical or automatic dispensers. After being applied on the hands, the product is spread by fast and careful rubbing. It does not leave the feeling of sticking. It protects the skin.

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits
The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation
H225: Highly flammable liquid and vapour

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Met. Corr. 1: H290 - May be corrosive to metals
Ox. Liq. 1: H271 - May cause fire or explosion, strong oxidiser
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage
STOT SE 3: H335 - May cause respiratory irritation

Classification procedure:

Eye Irrit. 2: Calculation method
Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

- END OF SAFETY DATA SHEET -