



# PROMPT HAND CLEANSING ALCOHOL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Revision Date 5.5.2020



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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

##### *Hazard pictograms*



##### *Signal word*

*Danger*

##### *Hazards statements*

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

##### *Precautionary statements*

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

P240 Ground/bond container and receiving equipment.

##### *Response*

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

##### *Storage*

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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### Reduced labelling ( $\leq 125$ ml)

#### Hazard pictograms



#### Signal word

**Danger**

#### Precautionary statements

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

Index-No. 603-002-00-5

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## SECTION 3. Composition/information on ingredients

### 3.1 Substance

Formula	C <sub>2</sub> H <sub>5</sub> OH	C <sub>2</sub> H <sub>6</sub> O (Hill)
Index-No.	603-002-00-5	
EC-No.	200-578-6	
Molar mass	46,07 g/mol	

#### Hazardous components (REGULATION (EC) No 1272/2008)

##### Chemical Name (Concentration)

CAS-No.	Registration number	Classification
ethanol (>= 50 % - <= 100 %)		

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

64-17-5	01-2119457610-43-XXXX	Flammable liquid, Category 2, H225 Eye irritation, Category 2, H319
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For the full text of the H-Statements mentioned in this Section, see Section 16.

### 3.2 Mixture

Not applicable

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### SECTION 4. First aid measures

#### 4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed irritant effects,** respiratory paralysis, Dizziness, narcosis, inebriation, euphoria, Nausea, Vomiting

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

No information available.

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### SECTION 5. Firefighting measures

#### 5.1 Extinguishing media

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at ambient temperatures.

Pay attention to flashback.

Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

*Further information*

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

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### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

#### *Advice on protection against fire and explosion*

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### *Hygiene measures*

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

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

#### *Storage conditions*

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

### 7.3 Specific end use(s)

See exposure scenario in the Annex to this MSDS.

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### SECTION 8. Exposure controls/personal protection

#### 8.1 Control parameters

##### Derived No Effect Level (DNEL)

Worker DNEL, acute	Local effects	inhalation	1900 mg/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	343 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, acute	Local effects	inhalation	950 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	206 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	114 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	oral	87 mg/kg Body weight

##### Predicted No Effect Concentration (PNEC)

PNEC Fresh water	0,96 mg/l
PNEC Marine water	0,79 mg/l
PNEC Fresh water sediment	3,6 mg/kg
PNEC Soil	0,63 mg/kg
PNEC Aquatic intermittent release	2,75 mg/l
PNEC Sewage treatment plant	580 mg/l
PNEC oral	720 mg/kg

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### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Safety glasses

#### *Hand protection*

full contact:

Glove material: butyl-rubber

Glove thickness: 0,7 mm

Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber

Glove thickness: 0,40 mm

Break through time: > 120 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 730 Camatril® -Velours (splash contact).

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The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

### *Other protective equipment*

Flame retardant antistatic protective clothing.

### *Respiratory protection*

required when vapours/aerosols are generated. Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not let product enter drains.

Risk of explosion.

## **SECTION 9. Physical and chemical properties**

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

Form	liquid
Colour	colourless
Odour	alcohol-like
Odour Threshold	0,1 - 5058,5 ppm
pH	7,0 at 10 g/l 20 °C

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Melting point	-117 °C
Boiling point/boiling range	78 °C at 1.013 hPa
Evaporation rate	No information available.
Flammability (solid, gas)	Not applicable
Lower explosion limit	3,5 %(V)
Upper explosion limit	15 %(V)
Vapour pressure	ca.59 hPa at 20 °C
Relative vapour density	No information available.
Density	0.805 – 0.812 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	at 20 °C soluble
Partition coefficient: n-octanol/water	log Pow: -0,31 (experimental) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	Distillable in an undecomposed state at normal pressure.

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Viscosity, dynamic	1,2 mPa.s at 20 °C
Explosive properties	Not classified as explosive.
Oxidizing properties	none

### 9.2 Other data

Ignition temperature	425 °C
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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Vapours may form explosive mixture with air.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

hydrogen peroxide, perchlorates, perchloric acid, Nitric acid, mercury(II) nitrate, permanganic acid, Nitriles, peroxy compounds, Strong oxidizing agents, nitrosyl compounds, Peroxides, sodium, Potassium, halogen oxides, calcium hypochlorite, nitrogen dioxide, metallic oxides, uranium hexafluoride, iodides, Chlorine, Alkali metals, Alkaline earth metals, alkali oxides, Ethylene oxide

silver, with, Nitric acid

silver compounds, with, Ammonia

potassium permanganate, with, conc. sulfuric acid

Risk of ignition or formation of inflammable gases or vapours with:

halogen-halogen compounds, chromium(VI) oxide, chromyl chloride, Fluorine, hydrides,

Oxides of phosphorus, platinum

Nitric acid, with, potassium permanganate

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### 10.4 Conditions to avoid

Warming.

### 10.5 Incompatible materials

rubber, various plastics

### 10.6 Hazardous decomposition products

no information available

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

LD50 Rat: 10.470 mg/kg

OECD Test Guideline 401

Symptoms: Nausea, Vomiting

#### *Acute inhalation toxicity*

LC50 Rat: 124,7 mg/l; 4 h ; vapour

OECD Test Guideline 403

Symptoms: Possible damages:, mucosal irritations

absorption

#### *Acute dermal toxicity*

This information is not available.

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

*Eye irritation*

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### Rabbit

Result: Eye irritation OECD Test Guideline 405

Causes serious eye irritation.

### *Sensitisation*

Sensitisation test (Magnusson and Kligman):

Result: negative

(IUCLID)

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Mouse lymphoma test

Result: negative Method: OECD

Test Guideline 476

*Carcinogenicity*

This information is not available.

*Reproductive toxicity*

This information is not available.

*Teratogenicity*

This information is not available.

*Specific target organ toxicity - single exposure*

This information is not available.

*Specific target organ toxicity – repeated exposure*

This information is not available.

*Aspiration hazard*

This information is not available.

## **11.2 Further information**

Systemic effects:

euphoria

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After absorption of large quantities:

Dizziness, inebriation, narcosis, respiratory paralysis

Handle in accordance with good industrial hygiene and safety practice

## SECTION 12. Ecological information

### 12.1 Toxicity

#### *Toxicity to fish*

LC50 *Leuciscus idus* (Golden orfe): 8.140 mg/l; 48 h  
(IUCLID)

#### *Toxicity to daphnia and other aquatic invertebrates*

EC5 *E.sulcatum*: 65 mg/l; 72 h  
(Lit.)

EC50 *Daphnia magna* (Water flea): 9.268 - 14.221 mg/l; 48 h  
(IUCLID)

#### *Toxicity to algae*

IC5 *Scenedesmus quadricauda* (Green algae): 5.000 mg/l; 7 d

(Lit.)

#### *Toxicity to bacteria*

EC5 *Pseudomonas putida*: 6.500 mg/l; 16 h  
(IUCLID)

#### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity )*

semi-static test NOEC *Daphnia magna* (Water flea): 9,6 mg/l; 9 d  
(ECHA)

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### 12.2 Persistence and degradability

#### *Biodegradability*

94 %

OECD Test Guideline 301E

Readily biodegradable

#### *Biochemical Oxygen Demand (BOD )*

930 - 1.670 mg/g (5 d)

(Lit.)

Theoretical oxygen demand (ThOD )

2.100 mg/g

(Lit.)

*Ratio COD/ThBOD 90 % (Lit.)*

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: -0,31

(experimental)

(Lit.) Bioaccumulation is not expected.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### 12.6 Other adverse effects

#### *Additional ecological information*

No interference with wastewater treatment plants are to be expected when used properly.

Discharge into the environment must be avoided.

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### SECTION 13. Disposal considerations

#### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### SECTION 14. Transport information

#### Land transport (ADR/RID)

14.1 UN number	UN 1170
14.2 Proper shipping name	ETHANOL
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	D/E

#### Inland waterway transport (ADN)

Not relevant

#### Air transport (IATA)

14.1 UN number	UN 1170
14.2 Proper shipping name	ETHANOL
14.3 Class	3
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no

#### Sea transport (IMDG)

14.1 UN number	UN 1170
14.2 Proper shipping name	ETHANOL
14.3 Class 3 14.4 Packing group	II

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**14.5 Environmentally hazardous** --

**14.6 Special precautions for** **yes**

**user**

EmS F-E S-D

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant

## SECTION 15. Regulatory information

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

*EU regulations*

Major Accident Hazard

SEVESO III

Legislation

FLAMMABLE LIQUIDS

P5c

Quantity 1: 5.000 t

Quantity 2: 50.000 t

Occupational restrictions

Take note of Dir 94/33/EC on the protection of young people at work.

*National legislation*

Storage class

3

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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### SECTION 16. Other information

#### Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

#### Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable.

#### Training advice

Provide adequate information, instruction and training for operators.

#### Labelling

Hazard pictograms



Signal word

Danger

#### *Hazard statements*

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

#### *Precautionary statements*

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

Response

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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### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Labelling (67/548/EEC or 1999/45/EC)

<i>Symbol(s)</i>	 F	Highly flammable
<i>R-phrase(s)</i>	11	Highly flammable.
<i>S-phrase(s)</i>	7-16	Keep container tightly closed. Keep away from sources of ignition - No smoking.
EC-No.	200-578-6	EC Label
<b>Reduced labelling (≤125 ml)</b>		
<i>Symbol(s)</i>	 F	Highly flammable

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.