

**Material Safety Data Sheet**  
**According to 1907/2006/EG, Article 31**  
**modification (EG) no. 453/2010**

**Printing date: 16-06-2017**

**SECTION 1: Identification of the substance/ mixture and of the company/undertaking**  
**1.1 Product identification**

**Trade name: Handalcohol 70% - 15097N – Denteck B.V.**

**Article number: P50030**

**1.2 Relevant Identified uses of the substance or mixture and uses advised against**  
**Application of the substance/ the preparation:** Professional use. Biocide: disinfectant

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/ supplier:**

Denteck B.V.

Heliumstraat 8

2718 SL Zoetermeer

T. +31-(0)79-3617573

@ info@denteck.nl

W [www.denteck.nl](http://www.denteck.nl)

**Further information obtainable from:** Denteck B.V.

**1.4 Emergency Telephone number:**

Phone: 030-274 88 88, National Poisoning Centre

(Only to inform doctors in case of accidental poisoning)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EG) no. 1272/2008**



GHS02 flammable

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Information concerning particular hazards for human and environment:**

The product has to be labelled according to the calculation procedure of the “General Classification guideline for preparations of the EU”, in the latest valid version.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**2.2 Label elements****Labelling according to Regulation (EG) no. 1272/2008**

The product is classified and labelled according to the CLP regulation

**Hazard pictograms****GHS02**

**Signal word:** Danger

**Hazard statements:** H225 Highly flammable liquid and vapour.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:** P210 Keep away from heat/ sparks/open flames/ hot surfaces – No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/lighting/equipment.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/ eye protection/ face protection.

**EUH-zinnen:** EUH208 Contains Chlorhexidine. May produce an allergic reaction.

**2.3 Other hazards**

No further relevant information available.

**SECTION 3. Composition/information on ingredients****3.1 Substances**

Inapplicable.

**3.2 Mixtures**

Gevaarlijke inhoudstoffen			
Ethanol	CAS:64-17-5 EINECS: 200-578-6	50-100%	Flam. Liq. 2, H225

	Reg.no.: 01-2119457610-43		
Chlorhexidine-digluconaat 20% solution	CAS: 18472-51-0 EINECS: 242-354-0 Reg.nr.: 01-2119946568-22	0,5%	Eye Irrit. 2, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Cetiol	CAS: 68201-46-7	1%	Not classified

**Additional information:**

For possible hazards please refer to section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General:** In case of respiratory problems: artificial respiration or oxygen.

**After inhalation:** Bring the victim to fresh air and rest in an surrounding that facilitates breathing. If you feel unwell consult a doctor.

**After skin contact:** Carefully wash with plenty of water and soap. Immediately remove contaminated clothing.

**After eye contact:** Gently rinse with water for a few minutes; Remove contact lenses, if possible; Keep rinsing. In case of persistent eye irritation consult a physician.

**After swallowing:** Immediately consult an ANTIGIFCENTRUM or doctor.

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

**Symptoms / Injuries after skin contact:** Has a degreasing effect on the skin.

**Symptoms / Injuries After Eye Contact:** Irritation to the eye tissue. Redness of the eye tissue. Pain and irritation.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

**SECTION 5: Fire fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Alcohol resistant foam, extinguishing powder, dry powder, carbon dioxide (CO<sub>2</sub>), foam, spray the water.

**Unsuitable extinguishing media:**

Do not use water jet.

**5.2 Special hazards arising from the substance or mixture:**

**Fire Hazard:** Flammable.

**Explosion Hazard:** Gas / vapor with air explosive within the explosion limits.

**Reactivity:** No data available.

**5.3 Advice for fire fighters**

**Protective equipment:** Wear suitable protective clothing.

**SECTION 6: Accidental release measures**

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

**General measures:** Do not expose to open fire. Do not smoke. Take measures against static electricity discharges. Wear protective gloves. Dismiss the unnecessary staff. Wear suitable protective clothing.

**6.2 Environmental precautions:** Not empty into drains/ surface water/ allow to enter groundwater.

**6.3 Methods and material for containment and cleaning up:**

**For inclusion:** Include inert absorbent material (eg sand, kieselguhr, acid binder, universal binder, sawdust). Small amounts of spilled liquid: absorb with a non-combustible absorbent material and put in suitable container for disposal.

**Methods for cleaning up:** Clean up spilled material.

#### **6.4 Referenc to other sections:**

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

**Additional hazards during processing:** Work in the open air / under local suction / with ventilation or with respiratory protection.

**Precautions for safe handling of the substance or mixture:** Store in a well-ventilated place only.

**Hygiene measures:** Wash hands and other exposed skin areas with soap and water, only then eat, drink, smoke or leave work.

#### **7.2 Conditions for secure storage, including incompatible products**

**Technical measures:** Avoid electrostatic discharge. Do not use compressed air to transfer, unload or transport the product. Remove any possible ignition source (open fire, sparks, smoke, etc.).

**Storage conditions:** Store closed container in a well-ventilated place.

**Non-combustible materials:** Oxidizing agent

**Special precautions for packaging:** Avoid contact with aluminum.

**7.3 Specific end use (s):** No further relevant information available.

### **SECTION 8: Exposure controls/ personal protection**

#### **8.1 Control parameters**

<b>64-17-5 ethanol, Ethylalcohol (64-17-5)</b>	
<b>MAC</b>	TGG 8H (mg/m3) – 260 mg/m3 TGG 15MIN (mg/m3) – 1900 mg/m3 Remark (MAC) - H

#### **8.2 Exposure controls:**

**Personal protective equipment:** Close-up glasses and gloves.

**Hand protection:** In case of repeated or prolonged contact, wear gloves, prolonged protection

**Oogbescherming:**



Close-up safety goggles.

**Skin and body protection:** Wear suitable protective clothing.

**Environmental exposure controls and controls:** Prevent from entering into sewage or surface water.

**Other information:** Always wash hands immediately after each handling with this product and before leaving the workplace.

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

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

## General information

### Appearance:

Physical state at 20 °C:	Liquid and volatile liquid hygroscopic
Color:	Colourless, clear liquid
Odor:	Characteristic (Alcoholisch)
Odor threshold	Not determined
pH:	6 – 9 (depends on oxygen ingress).
State change	
Melting point:	Not determined
Boiling point:	78 °C
Flash point:	~ 22 °C
Density:	0,886 g/m <sup>3</sup>
Flammability (Solid, gas):	Not determined
Ignition temperature:	425 °C
Decomposition temperature	Not determined
Selfignition	The product is not selfigniting
Danger of explosion	Product is not an explosion hazard but it is possible that explosion hazardous vapour and air mixtures will form
Explosion limits	
Bottom:	3,5% vol %
Upper	15,0 vol %
Vapour pressure at 20°C	59 hPa
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility in	
Water:	Fully miscible
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined

## 9.2 Other information

No further relevant information available.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity:** No information available.

**10.2 Chemical stability:** Stable under normal conditions.

**10.3 Possible Hazardous Reactions:** Vapors may form an explosive mixture with air.

**10.4 Conditions to avoid:** Open fire, overheating, sparks and heat.

**10.5 Chemically interacting materials:** Strong oxidizing agent.

**10.6 Hazardous decomposition products:** No additional information available.

## **SECTION 11: Toxicological information**

### **11.1 Information of toxicological effects**

**Acute toxicity:** Not classified

<b>Ethanol, ethylalcohol (64-17-5)</b>	
LD50 oral rat	> 2000 mg/kg OECD Test Directive 401; (literaturevalue)

LD50 dermal konijn	> 2000 mg/kg OECD Test Directive 402; (literaturevalue)
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<b>Chloorhexidine (18472-51-0)</b>	
LD50, acute, oral, mouse	2515 mg/kg (Remarks: Lungs, Thorax or Breathing: Acute pulmonary edema)

Skin corrosion / irritation:	Not classified.
Serious eye damage / eye irritation:	Not classified.
Respiratory / skin sensitization:	Not classified.
Mutagenicity in sex cells:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific target organ toxicity (single exposure):	Not classified.
Specific target organ toxicity (repeated exposure):	Not classified.
Danger of inhalation:	Not classified.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

<b>Ethanol, ethylalcohol (64-17-5)</b>	
LC50 fish	> 100 mg/l Leuciscus idus, 48 hour, OECD Test Directive 203; (Literaturevalue)
EC50 Daphnia	> 100 ml/l Daphnia Magna, 24 hour Test Directive 202; (literaturevalue)
ErC50 (algae)	> 100 mg/l Chlorella pyrenoidosa, OECD Test Directive 201; (literaturevalue)

<b>Chlorhexidine (18472-51-0)</b>	
LC50 Fish	0,4 ml/l Danio rerio
EC50 Daphnia	0,063 mg/l

### **12.2 Persistence and degradability**

<b>Ethanol, ethylalcohol (64-17-5)</b>	
Biodegradation	> 70% 5 days, OECD Test Directive 301D; (literaturevalue)

### **12.3 Bioaccumulation:**

<b>Handalcohol 70%</b>	
Log Pow	-0,31 Ethanol

**12.4 Mobility in soil:** No further relevant information available.

### **12.5 Results of PBT and zPzB assessment**

No additional information available

**12.6 Other adverse effects:** No further relevant information available.

## **SECTION 13: Disposal considerations**

### **13.1 waste disposal method**

**Recommendation:** Do not throw waste in the sink; Dispose of dust and packaging safely.

### **Recommendation for waste disposal:**

Clean up in a safe manner in accordance with local / national regulations.

### **EURAL code:**

14 06 03 \* - Other solvents and mixtures of solvents.

## **SECTION 14: Transport information**

### **14.1 VN number**

**ADR, IMDG, IATA**

UN1987

### **14.2 UN proper shipping name**

**Proper shipping name**

: Ethanol n.o.s.

**Description transport document**

: UN 1987 Ethanol n.o.s. (Ethanol,  
Chloorhexidine, Cetiol), 3, II, (D/E)

### **14.3 Hazard class**

**ADR**



**Class**

3 (F1) Flammable liquids

**Label**

3

**IMDG, IATA**



**Class**

3 Flammable liquids

**Label**

3

### **14.4 Packing group**

**ADR, IMDG, IATA**

II

### **14.5 Environmental hazards**

**Other information**

No further information available

### **14.6 Special precautions for user**

**Kemler-number**

33

**EMS- number**

F1



**Orange identification board**

**Special Provision (ADR)**

: 274,601,640D

**Transportcategory (ADR)**

: 2

**Tunner restriction code**

: D/E

**Limited quantities (ADR)**

: 1L

**Excluded quantities (ADR)**

: E2

#### **14.6.2 Transport on open sea**

**Transport regulations (IMDG)**

: Subject

**MFAG-Nr.**

: S-D

#### **14.6.3 Air transport**

**Transport regulations (IATA)**

: Subject

### **14.7 Transport in bulk according to Annex II**

at MARPOL 73/78 and IBC code

: Not applicable

## **SECTION 15: Regulations**

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

#### **15.1.1. EU regulations**

No restrictions according to Annex XVII of REACH

Contains no REACH candidate substance

#### **15.1.2. National regulations: Biocide**

**Water hazard:** 8 - Harmful to aquatic organisms; May cause long-term adverse effects in the aquatic environment.

**Remediation efforts:** A - In principle, no discharge; If so, apply best existing techniques.

**15.2 Chemical Safety Assessment:** A Chemical Safety Assessment has not been performed.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific features and shall not establish a legally valid contractual relationship.

N number: 15097N

### **Relevant phrases**

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### **Abbreviations:**

ADR: Accord européen sur le transport des marchandises par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.