

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

**Printing date: 10-09-2015**  
**Revision date: 02-11-2017**

**SECTION1: Identification of the substance/mixture and of the company/undertaking**  
**1.1 Product identification**

**Trade name: Ethanol 70 % with 5% IPA**

**Article number: P50081**

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

**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



GHS07

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

**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



GHS07

**Signal word:** Danger

**Hazard statements:** H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation

**Precautionary statements:** P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P233 Keep container tightly closed.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 dispose of contents/ container according to the local/regional/national/international regulations.




**2.3 Other hazards**

No further relevant information available.

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

Inapplicable.

**3.2 Mixtures**

Dangerous components			
Ethanol	CAS:64-17-5 EINECS: 200-578-6 Reg. nr.: 01-2119457610-43	50-100%	 Flam. Liq. 2, H225
Propaan-2-ol	CAS: 67-63-0 EINECS: 200-661-7	2,5 – 10%	 Flam. Liq. 2, H225;  Eye irrit. 2, H319; STOT SE 3,

	Reg.nr.: 01-2119457558-25		H336
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**Additional information:**

For possible hazards please refer to section 16.

**SECTION 4: first aid measures**

**4.1 Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist, consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**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:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

No further relevant information available.

**5.3 Advice for fire fighters**

**Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

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

**6.3 Methods and material for containment and cleaning up:** With liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

**6.4 Reference to other sections:**

See Section 7 for safe handling

See Section 8 for personal protection equipment

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/ exhaustion at the workplace.

**Information about fire- and explosion protection:**

Keep ignition sources away – do not smoke. Protect against electrostatic charges.

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

**Storage:**

**Requirements for storage rooms and tanks:** Store in a cool place.

**Information about storage in a joint storage facility:** Not necessary.

**Further information about storage conditions:** Keep tanks tightly sealed. Store in a cool and dry place in tightly sealed tanks.

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

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

**Additional information about the design of technical facilities:** No further data; see section 7.

### **8.1 Control parameters**

<b>Ingredients with values that require monitoring at the work place:</b>		
<b>64-17-5 ethanol</b>		
<b>BGW</b>	TGG 8H (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
	TGG 15 min (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
<b>67-63-0 propaan-2-ol</b>		
<b>BGW</b>	650 mg/m <sup>3</sup> , 250 ppm	

**Additional information:** During the making of this sheet valid lists were used.

### **8.2 Exposure control measures:**

#### **Personal protective equipment:**

**General protective and health measures:** Wash hands before every break and after work.

**Respiratory protection:** No personal respiratory protective equipment normally required. In case of insufficient ventilation, exceeding workplace limits to serious odor or release of aerosols, mists and smoke use one of the environment-independent breathing mask or breathing mask with filter type A or accordingly combination filter ( in the presence of aerosols, mists and smoke, for example. A-P2 or use ABEK-P2) according to EN 141.

**Protection of hands:** Protective gloves

#### **Material of gloves:**

##### **Full contact:**

Glove material: butyl rubber

Glove thickness: 0,7 mm

Break through time: > 480 min

##### **Splash contact**

Glove material: Nitrile

Glove thickness: 0,40 mm

Break through time: > 120 min

#### **Penetration time of glove material:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be taken into account.

#### **Eye protection:**



Wear Safety goggles.

#### **Protective measures:**

Do not induce vapours or spray mist.

#### **Hygiene measures:**

Take off immediately all contaminated clothing.

#### **Environmental exposure:**

Do not flush into surface water or sanitary sewer system. Avoid penetration into the soil. Do not allow material to contaminate ground water.

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

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

#### **General Information:**

Appearance:

Physical state at 20 °C:

Liquid

Color:

Colourless, clear liquid

Odor:

Characteristic (Alcoholic)

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:

0,872 g/cm<sup>3</sup> at 20 °C

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 vol %

Vapor pressure at 20°C:

59 hPa

Relative density:

Not determined

Vapor density:

Not determined

Evaporation rate:

Not determined

Solubility in water

Water:

Fully miscible

Verdelingscoëfficiënt 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**

### **10.2 Chemical stability**

**Thermal decomposition/ conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possible hazardous reactions:** No further relevant information available.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

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

**Acute toxicity:**

**Primary disease:**

**On the skin:** No irritating effect.

**On the eyes:** Irritating effect.

**Hypersensitivity:** No effects of hypersensitivity known.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulation:** No further relevant information available.

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

**Additional ecological information:**

**General information:**

Water hazard class 1 (D) (self classification): danger to water small.

Do not allow undiluted product or large quantities to reach ground water, surface water or sewage system. Water hazard class (NL) 11: Little damage to no damage to aquatic organisms.

**Results of PBT- and zPzB-assessment**

**PBT:** Not applicable.

**zPzB:** Not applicable.

**Other hazardous effects:** No further relevant information available.

## **SECTION 13: Disposal considerations**

### **13.1 Disposal method:**

**Recommendation:** Do not allow household garbage to reach sewage system.

**Uncleaned packaging:**

**Recommendation:** Disposal according to official regulations.

**Recommended cleaning:** Recommended cleaning Water, if necessary with cleansing agents.

## **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**

UN1987 Ethanol, n.o.s. (Ethanol, IPA), 3,  
II, (D/E)

### **14.3 Hazard class**

**ADR**



**Class**

3 (F1) Flammable liquids

**Label  
IMDG, IATA**

3



**Class** 3 Flammable liquids

**Label** 3

**14.4 Packing group  
ADR,IMDG, IATA** II

**14.5 Environmental hazards**

**Marine pollutant** No

**14.6 Special precautions for user** Warning: Flammable liquids

**Kemler-number** 33

**EMS-number** F-E,S-E

**Tunnel restriction code** D/E

**14.7 Transport in bulk according to Annex II  
of MARPOL 73/78 and IBC code** Not applicable

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**VN “Model regulation”** UN 1987; Ethanol n.o.s. (Ethanol, IPA), 3;  
II; (D/E)

### **SECTION 15: Regulatory information**

**15.1 Specific safety, health and environment regulations and legislation of the substance or the mixture.**

**National regulations:**

No further relevant information available.

**Water hazard class:** Water hazard class (NL) 11: Sanitation B.

**15.2 Chemical Safety assessment:** A chemical safety assessment has not been carried out.

### **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.

#### **Mention of changes**

2.1	changed
3.2	changed
11.1	changed
16	changed

#### **Relevant phrases:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Abbreviations:**

ADR: Accord européen sur le transport des marchandises dangereuses 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.