

# Ethanol 96% USP MSDS



## Safety Data Sheet According to Regulation (EC) 1907/2006

1085 Ethanol 96% v/v

### 1. Identification of the substance/preparation and of the company or firm

#### 1.1 Identification of the substance or preparation

Name:  
Ethanol 96% v/v

**Synonym:**  
Ethyl Alcohol

**REACH Registration Number:** 01-2119457610-43-XXXX

#### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.  
C/Garraf 2  
Polígono Pla de la Bruguera  
E-08211 Castellar del Vallès  
(Barcelona) Spain  
Tel. (+34) 937 489 400  
e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)  
Tel.: (+34) 937 489 499

### 2. Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Flam. Liq. 2

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statements

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.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

**F** Highly flammable

R11

For the full text of the R-phrases mentioned in this section, see section 16.

### 3. Component Composition/Information

Name: Ethanol 96% v/v

Formula: CH<sub>3</sub>CH<sub>2</sub>OH M.= 46,07 CAS [64-17-5]

EC number (EINECS): 200-578-6

EC index number: 603-002-00-5

REACH Registration Number: 01-2119457610-43-XXXX

### 4. First aid

#### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

#### 4.2 Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

#### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

#### 4.4 Eyes:

Wash with plenty of water, keeping eyelids open.

#### 4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Do not administer emetics. Do not administer animal carbon. Do not drink milk. Seek medical assistance.

### 5. Fire-fighting means

#### 5.1 Suitable fire-extinguishing means:

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

#### 5.2 Fire-fighting means which must NOT be used:

No specific data.

#### 5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Risk of inflammation due to accumulation of electrostatic charges.

#### 5.4 Protective equipment:

Suitable clothing and footwear.

### 6. Measures to be taken in the event of accidental spillage

**6.1 Individual precautions:**

No special indications.

**6.2 Precautions for care of the environment:**

Avoid pollution of the soil, water supplies and drains.

**6.3 Methods for collection/cleaning:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation.

**7. Handling and storage**

**7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Room temperature.

**8. Staff exposure/protection controls**

**8.1 Technical protective measures:**

Ensure good ventilation and renewal of the air in the premises.

**8.2 Exposure limit control:**

VLA-ED: 1.000 ppm - 1.910 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A. Filter P.

**8.4 Hand protection:**

Use suitable gloves neopren PVC nitrile

**8.5 Eye protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: -114,1 °C

Initial boiling point and boiling range: 78,5 °C

Flash point: 14 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 15 %(V) / 3,5 %(V)  
Vapour pressure: 59 hPa (20 °C)  
Vapour density: N/A  
Relative density: (20/4) 0,805  
Solubility: Miscible with water and most of the solvents  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature: ~425 °C  
Decomposition temperature: N/A  
Viscosity: N/A

## 10. Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Alkaline metals. Alkaline oxides. Strong oxidant agents.

### 10.3 Hazardous decomposition products:

No specific data.

### 10.4 Complementary information:

The gases/fumes can form explosive mixtures with the air.

## 11. Toxicological information

### 11.1 Acute toxicity:

LD L0 oral hmn : 1.400 mg/kg

LD50 oral rat : 7.060 mg/kg

LC L0 inh gpg : 21900 ppm

LC50 inh rat : 20000 ppm 10h

### 11.2 Dangerous effects for health:

If fumes inhaled: Irritations to the mucosae slight Risk of cutaneous absorption. Through contact with the eyes: irritations slight If swallowed: Can cause nausea vomiting Systemic effects: intoxication vertigo narcosis respiratory paralysis

## 12. Environmental information

### 12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 47000 mg/l

Classification:

Toxic

Bacteria (Ps. putida) EC0 >6500 mg/l

Classification: Toxic

Algae (Sc. quadricauda) EC0 >5000 mg/l

Classification: Toxic

Algae (M. aeruginosa) EC0 >1450 mg/l

Classification: Toxic

Crustaceans (Daphnia magna) EC0 >7800 mg/l

Classification: Toxic

Fish >10.000 mg/l

Classification:

Toxic or hardly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.1.3. - Observations:

Non-ecotoxic compound if the dumping concentration is not very high.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

High, over 1/3

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Easily biodegradable product.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other possible effects on the environment:**

Non-pollutant product.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Information concerning transport**

Overland (ADR):

Technical name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

UN 1170 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

UN 1170 Class: 3 Packaging group: II

By air (ICAI-IATA):

Technical name: Ethanol

UN 1170 Class: 3 Packaging group: II

**15. Regulatory information**

The substance is subject to Council Directive 92/12/CEE of 25 February 1992, about the general system, possession, circulation and controls of the products subject to excise taxes and its modifications: (Directive 92/108/CEE, Directive 94/74/CE, Directive 96/99/CE, Directive 2000/44/CE, Directive 2000/47/CE, Regulation CE n° 807/2003 and Directive 2004/106/CE), subject to Council Directive 92/83/CEE, of 19 October 1992, harmonization of the structures of excise taxes on alcohol and alcoholic beverages and Council Directive 92/84/EEC of 19 October 1992 on the approximation of the rates of excise duty on alcohol and alcoholic beverages.

**16. Other information****Other precautionary statements**

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use for extinction.

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

**Labelling (65/548/CEE or 1999/45/CE)**

R-phrased(s):	<b>R11</b> Highly flammable.
S-phrased(s):	<b>S16</b> Keep away from sources of ignition - No smoking. <b>S7</b> Keep container tightly closed.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.

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