



## 1885 1-Propanol

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

#### 1.1 Identification of the substance or preparation

Name:

1-Propanol

#### Synonym:

n-Propanol, n-Propyl alcohol

**REACH Registration Number:** 01-2119486761-29-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) nº 1272/2008.**

Flam. Liq. 2

Eye Dam. 1

STOT SE 3

#### Hazard Pictograms



#### Signal word

Danger

### **Hazard statements**

H225 Highly flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

### **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.  
P243 Take precautionary measures against static discharge.

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

<b>Xi</b> Irritant	R67
<b>F</b> Highly flammable	R41
	R11

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

## **3. Component Composition/Information**

Name: 1-Propanol

Formula: CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH M.= 60,10 CAS [71-23-8]

EC number (EINECS): 200-746-9

EC index number: 603-003-00-0

REACH Registration Number: 01-2119486761-29-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 of suffocation, proceed to provide artificial respiration.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

### **4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

### **4.5 Swallowing:**

Drink large amounts of water. Avoid vomiting. Seek medical assistance. Administer a solution of medical-usage active charcoal. Stomach lavage. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Administer Vaseline oil as a laxative (3 ml/kg).

## **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:**

Do not inhale the fumes. Ensure adequate ventilation.

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

Do not allow it to enter the drainage system. 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. Clean any remains with plenty of water.

**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. Do not store in light-metal containers.

**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-EC: 250 ppm - 625 mg/m<sup>3</sup>

VLA-ED: 200 ppm - 500 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

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

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face 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: -126,5 °C

Initial boiling point and boiling range: 97,4 °C

Flash point: 15 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 13,5 %(V) / 2,1 %(V)

Vapour pressure: 18,7 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,8035

Solubility: Miscible with water, alcohol, ether and trichloromethane.

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 405 °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. Alkali-earth metals. Alcoholates. 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 wmn : 5.700 mg/kg

LD50 oral rat : 1.870 mg/kg

LD50 skn rbt : 5.040 mg/kg

LC50 inh mus : 48000 mg/m<sup>3</sup>

### **11.2 Dangerous effects for health:**

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Can cause nausea headaches vertigo intoxication loss of consciousness narcosis If it is absorbed in large quantities: respiratory paralysis coma

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 18400 mg/l

Classification:

Toxic

Bacteria (Ps. putida) EC0 2700

Classification: Very toxic

Algae (Sc. quadricauda) EC0 3100

Classification: Very toxic

Crustaceans (Daphnia magna) 4415 mg/l

Classification:

Very toxic

Fish (Leuciscus Idus) 4320 mg/l

Classification:

Very toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

Acute ecotoxicity in line with the dumping concentration.

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

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

### **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:**

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

### **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: n-PROPANOL (PROPYL ALCOHOL, NORMAL)

UN 1274 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: n-PROPANOL (PROPYL ALCOHOL, NORMAL)

UN 1274 Class: 3 Packaging group: II EMS 2928

By air (ICAI-IATA):

Technical name: n-Propanol

UN 1274 Class: 3 Packaging group: II

Packaging instructions: CAO 364 PAX 353

### **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **16. Other information**

### **Other precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
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.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P370+P378 In case of fire: Use for extinction.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

R-phrases(s):     **R67** Vapours may cause drowsiness and dizziness.  
                          **R41** Risk of serious damage to eyes.  
                          **R11** Highly flammable.

S-phrases(s):     **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
                          **S24** Avoid contact with skin.  
                          **S16** Keep away from sources of ignition - No smoking.  
                          **S7** Keep container tightly closed.  
                          **S39** Wear eye/face protection.

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.