

# Safety Data Sheet

## According to Regulation (EC) 1907/2006



### 1884 1-Pentanol

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Name:

1-Pentanol

##### Synonym:

n-Amyl Alcohol, n-Butylcarbinol, n-Pentyl Alcohol

**REACH Registration Number:** 01-2119491284-34-XXXX

##### 1.2 Relevant identified uses of the substance or mixture:

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. 3

Acute Tox. 4

STOT SE 3

Skin Irrit. 2

##### Hazard Pictograms



## Signal word

Warning

### Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

### 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).

Xn Harmful

R37/38

R20

R10

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

## 3. Composition/information on ingredients

Name: 1-Pentanol

Formula: C<sub>5</sub>H<sub>12</sub>O M.= 88,15 CAS [71-41-0]

EC number (EINECS): 200-752-1

EC index number: 603-200-00-1

REACH Registration Number: 01-2119491284-34-XXXX

## 4. First aid measures

### 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, keeping eyelids open. Seek medical assistance.

### 4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

## **5. Firefighting measures**

### **5.1 Suitable extinguishing media:**

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

### **5.2 Unsuitable extinguishing media:**

No specific data.

### **5.3 Special hazards arising from the substance or mixture:**

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air.

### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

## **6. Accidental release measures**

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

Do not inhale the fumes. Ensure adequate ventilation.

### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

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

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 Precautions for safe handling:**

No special indications.

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

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

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

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

### **8.2 Control parameters:**

: Data not available.,

### **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/face 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: -79 °C

Initial boiling point and boiling range: 138 °C

Flash point: 48 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 10,5 %(V) / 1,3 %(V)

Vapour pressure: 3 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,816

Solubility: 27 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 300 °C

Decomposition temperature: N/A

Kinematic viscosity:N/A

Dynamic viscosity:3,68 mPa.s(20 °C)

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

High temperatures.

### **10.2 Incompatible materials:**

Alkaline metals. Alkali-earth metals. Oxidant agents.

### **10.3 Hazardous decomposition products:**

No specific data.

### **10.4 Chemical stability:**

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

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 2.200 mg/kg

LD50 skn rbt : 3.600 mg/kg

LC L0 inh rat : 14000 mg/m3 6h

LD50 ipr mus : 970 mg/kg

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

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations slight Through contact with the eyes: irritations If it is absorbed in large quantities: Can cause effects on the central nervous system headaches dizziness narcosis Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Bacteria (Photobacterium phosphoreum) 393 mg/l

Classification:

Highly toxic

Algae (Sc. quadricauda) 280 mg/l

Classification:

Highly toxic

Crustaceans (Daphnia magna) 440 mg/l

Classification:

Highly toxic

Fish 470 mg/l

Classification:

Highly toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

#### **- Observations:**

Acute ecotoxicity in line with the dumping concentration.

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

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

Data not available.

### **12.3 Bioaccumulative potential:**

#### **- Test:**

#### **- Bioaccumulation:**

Risk

#### **- Observations:**

Data not available.

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

Data not available.

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

Data not available.

### **12.6 Other adverse effects:**

Hardly pollutant product.

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

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. Transport information**

Overland (ADR):

Technical name: PENTANOLS

UN 1105 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: PENTANOLS

UN 1105 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Pentanol

UN 1105 Class: 3 Packaging group: III

Packaging instructions: CAO 366 PAX 355

## **15. Regulatory information**

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

## **16. Other information**

### Other precautionary statements

- P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.  
P264 Wash...thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection or face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
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.

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

- R-phrase(s):     **R37/38** Irritating to respiratory system and skin.  
                      **R20** Harmful by inhalation.  
                      **R10** Flammable.
- S-phrase(s):     **S46** If swallowed, seek medical advice immediately and show this container or label.  
                      **S36/37** Wear suitable protective clothing and gloves.

Version and revision date : 5 17.04.2013

Date published: 17.04.2013

In respect of the previous review, changes have been made to the following sections: 3

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.