

# S a f e t y   D a t a   S h e e t

## According to Regulation (EC) 1907/2006



### 2006 n-Pentane

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

##### **1.1 Product identifier**

Name:

n-Pentane

**Synonym:**

**REACH Registration Number:** 01-2119459286-30-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. 2

Asp. Tox. 1

STOT SE 3

Aquatic Chronic 2

##### **Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H411 Toxic 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.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

<b>N</b>	Dangerous for the environment	R67
<b>Xn</b>	Harmful	R66
<b>F+</b>	Extremely flammable	R65
		R12
		R51/53

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

**3. Composition/information on ingredients**

Name: n-Pentane

Formula: C<sub>5</sub>H<sub>12</sub> M.= 72,15 CAS [109-66-0]

EC number (EINECS): 203-692-4

EC index number: 601-006-00-1

REACH Registration Number: 01-2119459286-30-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:**

Avoid vomiting. Precaution in the event of vomiting (there is a risk of aspiration). Administer Vaseline oil as a laxative (3 ml/kg). Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Do not drink milk. Seek medical assistance.

### **5. Firefighting measures**

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

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

#### **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.

#### **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:**

Avoid the formation of electrostatic charges.

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

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Room temperature. Do not store in plastic containers.

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

#### **8.1 Exposure controls:**

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

#### **8.2 Control parameters:**

VLA-ED: 1.000 ppm - 3.000 mg/m<sup>3</sup> ,

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter AX. Filter P3.

### **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 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: -129,7 °C

Initial boiling point and boiling range: 36,1 °C

Flash point: - 40 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 7,8 %(V) / 1,4 %(V)

Vapour pressure: 573 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,63

Solubility: 0,36 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 285 °C

Decomposition temperature: N/A

Kinematic viscosity:N/A

Dynamic viscosity:0,22 mPa.s(25 °C)

## **10. Stability and reactivity**

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

High temperatures.

### **10.2 Incompatible materials:**

No specific data.

### **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:**

LC L0 inh mus : 325 mg/m<sup>3</sup> 2h

LC L0 inh rat : 325 g/m<sup>3</sup> 2h

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

If swallowed and inhaled: narcosis spasms respiratory paralysis The following cannot be ruled out: Irritations to the mucosae Upon contact with the skin: Can have a demoiaturizing effect on the skin, with the risk of secondary infection.

## **12. Environmental information**

### **12.1 Toxicity:**

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

Fish EC0 60 mg/l

Classification: Extr. toxic

Hydrologycal organisms. 10 mg/l

Classification:

Extr. 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: PENTANES, liquid

UN 1265    Class: 3    PELIG.M.AMB    Packaging group: II (D/E)

By sea (IMDG):

Technical name: PENTANES, liquid

UN 1265    Class: 3    PELIG.M.AMB    Packaging group: II

By air (ICAI-IATA):

Technical name: Pentanes, liquid

UN 1265    Class: 3    PELIG.M.AMB    Packaging group: II

Packaging instructions:    CAO 364    PAX 353

## **15. Regulatory information**

Categorized as hydrocarbon substance.

## **16. Other information**

### Other precautionary statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing, eye protection or face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
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.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use for extinction.  
P391 Collect spillage.  
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):	<b>R67</b> Vapours may cause drowsiness and dizziness. <b>R66</b> Repeated exposure may cause skin dryness or cracking. <b>R65</b> Harmful: may cause lung damage if swallowed. <b>R12</b> Extremely flammable. <b>R51/53</b> Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s):	<b>S33</b> Take precautionary measures against static discharges. <b>S29</b> Do not empty into drains. <b>S16</b> Keep away from sources of ignition - No smoking. <b>S9</b> Keep container in a well-ventilated place. <b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S62</b> If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Version and revision date : 5 17.04.2013

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In respect of the previous review, changes have been made to the following sections: 2

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.

