



## 3501 Isopentane

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

#### 1.1 Identification of the substance or preparation

Name:

Isopentane

#### Synonym:

2-Methylbutane, Isopentane

**REACH Registration Number:** 01-2119475602-38-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. 1

Asp. Tox. 1

STOT SE 3

Aquatic Chronic 2

#### Hazard Pictograms



#### Signal word

Danger

### **Hazard statements**

H224 Extremely 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. Component Composition/Information**

Name: Isopentane

Formula: C<sub>5</sub>H<sub>12</sub> M.= 72,15 CAS [78-78-4]

EC number (EINECS): 201-142-8

EC index number: 601-006-00-1

REACH Registration Number: 01-2119475602-38-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, keeping eyelids open. Seek medical assistance.

#### **4.5 Swallowing:**

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. Do not administer castor oil.

### **5. Fire-fighting means**

#### **5.1 Suitable fire-extinguishing means:**

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

#### **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. May form explosive mixtures with the air. Prevent the build-up of static.

#### **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.

#### **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:**

Avoid the formation of electrostatic charges.

#### **7.2 Storage:**

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

TLV-TWA: 600 ppm - 1.770 mg/m<sup>3</sup>

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, P3.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

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

Remove contaminated clothing. Use complete protective equipment. 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: -159,9 °C

Initial boiling point and boiling range: 27,8 °C

Flash point: - 51 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 7,6 %(V) / 1,3 %(V)

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 0,6201

Solubility: 0,36 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 420 °C

Decomposition temperature: N/A

Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

The product is chemically stable under standard ambient conditions (room temperature).

### **10.2 Matter which should be avoided:**

No specific data.

### **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:**

LC L0 inh mus : 419 g/m<sup>3</sup> 2h

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

If swallowed in large quantities: narcosis spasms anxiety drowsiness dizziness euphoria Upon contact with the skin: Can have a demoiaturizing effect on the skin, with the risk of secondary infection. If swallowed: nausea vomiting Risk of aspiration upon vomiting.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Fish EC0 60 mg/l

Classification: Extr. toxic

Hydrologycal organisms. 10 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

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:

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:**

Do not allow it to enter soils or water channels.

## **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: PENTANES, liquid

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

By sea (IMDG):

Technical name: PENTANES, liquid

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

By air (ICAI-IATA):

Technical name: Pentanes, liquid

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

Packaging instructions: CAO 361 PAX 351

## **15. Regulatory information**

Categorized as hydrocarbon substance.

## **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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/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: **R67** Vapours may cause drowsiness and dizziness.  
**R66** Repeated exposure may cause skin dryness or cracking.  
**R65** Harmful: may cause lung damage if swallowed.  
**R12** Extremely flammable.  
**R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: **S33** Take precautionary measures against static discharges.  
**S29** Do not empty into drains.  
**S16** Keep away from sources of ignition - No smoking.  
**S9** Keep container in a well-ventilated place.  
**S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
**S62** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Review number and date: 3 3.11.10

Date published: 3.11.10

In respect of the previous review, changes have been made to the following sections: 2, 3, 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.

