



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

**1347 Hexane, \*alkanes mixture**

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

**1.1 Product identifier**

Name:

Hexane, \*alkanes mixture

**CAS:** [92112-69-1]

**REACH Registration Number:** 01-2119474209-33-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**

**2.1 Classification of the substance or the mixture.**

**Classification Regulation (CE) nº 1272/2008.**

Flam. Liq. 2

Skin Irrit. 2

Aquatic Chronic 2

Asp. Tox. 1

STOT SE 3

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

<b>N</b>	Dangerous for the environment	R65
<b>Xn</b>	Harmful	R51/53
<b>F</b>	Highly flammable	R38
		R11
		R67

**2.2 Label elements:**

**Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

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

**2.3 Other hazards:**

No further relevant information available.

**3. Composition/information on ingredients**

Hydrocarbons mixture, consisting mainly in: 50% n-Hexane, 45% isomers (2- and 3-Methylpentanes and Methylcyclopentane) and variable amounts of Dimethylbutanes and Cyclohexane.

Name: Hexane, \*alkanes mixture

Formula: C<sub>6</sub>H<sub>14</sub> M.= 86,18 CAS [92112-69-1]

EC number (EINECS): 295-570-2

REACH Registration Number: 01-2119474209-33-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:**

Do not induce vomiting. Call for medical help. Do not administer digestive oils. Do not drink milk. Avoid stomach lavage.

## **5. Firefighting measures**

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

Alcohol resistant 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. Auf Rückzündung achten

### **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.

**Recommended storage temperature:** 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: 20 ppm = 72 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 nitrile

**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: -95 °C

Initial boiling point and boiling range: 60 - 70 °C

Flash point: - 22 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 7,7 %(V) / 0,6 %(V)

Vapour pressure: 177 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 0,67 g/ml

Solubility: Immiscible with water.

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 240 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

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

High temperatures.

### **10.2 Incompatible materials:**

Strong 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 : 28.710 mg/kg

LC L0 inh mus : 120000 mg/m3

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

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: Risk of cutaneous absorption. If swallowed: nausea Due to absorption: dizziness tiredness narcosis Prolonged exposure causes effects on the central nervous system paralysis

## **12. Environmental information**

### **12.1 Toxicity:**

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

Bacteria (Photobacterium phosphoreum) 104 mg/l

Classification:

Highly toxic

Fish (Leuciscus Idus) 4480 mg/l

Classification:

Very toxic

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

Risk for the water environment

Low

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.

Risk of formation of explosive fumes on the surface of the water.

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

## **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: HEXANES

UN 1208    Class: 3   PELIG.M.AMB    Packaging group: II (D/E)

By sea (IMDG):

Technical name: HEXANES

UN 1208    Class: 3   PELIG.M.AMB    Packaging group: II

By air (ICAI-IATA):

Technical name: Hexanes

UN 1208    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.  
P264 Wash...thoroughly after handling.  
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.  
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).  
P331 Do NOT induce vomiting.  
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.  
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>R65</b> Harmful: may cause lung damage if swallowed. <b>R51/53</b> Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. <b>R38</b> Irritating to skin. <b>R11</b> Highly flammable. <b>R67</b> Vapours may cause drowsiness and dizziness.
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 : 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.