



Safety Data Sheet

According to Regulation (EC) 1907/2006



3520 n-Octane

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

n-Octane

1.2 Synonym:

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

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(Barcelona) Spain

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Skin Irrit. 2

Asp. Tox. 1

STOT SE 3

Aquatic Acute 1

Aquatic Chronic 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H410 Very 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).

R67

N Dangerous for the environment R65

Xn Harmful R38

F Highly flammable R11

R50/53

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

Component Composition/Information

Name: n-Octane

Formula: C₈H₁₈ M.= 114,23 CAS [111-65-9]

EC number (EINECS): 203-892-1

EC index number: 601-009-00-8

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 sickness persists, seek medical assistance.

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.

4.5 Swallowing:

Drink large amounts of water. Avoid vomiting. Risk of aspiration. Seek medical assistance.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

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.

5.4 Protective equipment:

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.

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. Atmospheric temperature. Do not store in plastic containers.

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: 1.780 mg/m³

VLA-ED: 300 ppm ó 1.420 mg/m³

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

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry:

Odour: Characteristic.

pH:

Melting point/freezing point: -56,8 °C

Initial boiling point and boiling range: 125,7 °C
Flash point: 8 °C
Flammability (solid, gas):
Upper/lower flammability or explosive limits: 3,2 %(V) / 1 %(V)
Vapour pressure: 15 hPa (20 °C)
Vapour density:
Relative density: (20/4) 0,7025
Solubility: 0,1 g/l water 20 °C
Partition coefficient: n-octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Strong oxidant agents.

10.3 Hazardous decomposition products:

10.4 Complementary information:

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

Toxicological information

- **Acute toxicity:**

- **Dangerous effects for health:**

Dangerous effects for health: Corrosive substance. No specific data on this product known with regard to effects of overdose in humans. If fumes inhaled: Irritations to the respiratory tracts. The following cannot be ruled out: pulmonary oedema pulmonitis Upon contact with the skin: Can have a demoiurizing effect on the skin, with the risk of secondary infection. Through contact with the eyes: irritations If it is absorbed in large quantities: narcosis Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

Environmental information

12.1 Mobility:**12.2 Ecotoxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 20 mg/l

Classification:

Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

12.2.3 - Observations:

Bactericide effect. Generally toxic for water organisms.

12.3 Degradability:

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

ThOD 3,5 g/g

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Data not available.

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Product hardly pollutant for water.

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.

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.

Information concerning transport

Overland (ADR):

Technical name: OCTANES

UN 1262 Class: 3 PELIG.M.AMB Packaging group: II (D/E)

By sea (IMDG):

Technical name: OCTANES

UN 1262 Class: 3 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Octanes

UN 1262 Class: 3 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 307 PAX 305

Regulatory information

Categorized as hydrocarbon substance.

Other information

Other precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/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/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-phrase(s):	R67 Vapours may cause drowsiness and dizziness. R65 Harmful: may cause lung damage if swallowed. R38 Irritating to skin. R11 Highly flammable. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s):	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. S60 This material and its container must be disposed of as hazardous waste. 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.