



Safety Data Sheet

According to Regulation (EC) 1907/2006

2064 Isooctane

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

1.1 Product identifier

Name:

Isooctane

Synonym:

2,2,4-Trimethylpentane, iso-Butyltrimethylmethane, iso-Octane

CAS: [540-84-1]

REACH Registration Number: 01-2119457965-22-XXXX

1.2 Relevant identified uses of the substance or mixture:

Production of the substance.

Distribution of Substance.

Formulation and repackaging of substances and mixtures

Uses in Coatings.

Use in Cleaning Agents.

Use as laboratory chemicals.

Use as fuel.

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

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
Asp. Tox. 1
STOT SE 3
Aquatic Chronic 1

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

F	Highly flammable	R11
Xn	Harmful	R38
N	Dangerous for the environment	R65
		R67
		R50/53

2.2 Label elements:

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.
P240 Ground/bond container and receiving equipment.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P403+P235 Store in a well-ventilated place. Keep cool.

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

Name: Isooctane
Formula: C₈H₁₈ M.= 114,23 CAS [540-84-1]
EC number (EINECS): 208-759-1
EC index number: 601-009-00-8
REACH Registration Number: 01-2119457965-22-XXXX

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness. Seek immediate medical attention.

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 soap and water. Remove contaminated clothing. Seek immediate medical assistance.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open.

4.5 Swallowing:

Avoid vomiting (there is a risk of perforation). Call for medical help.

· Most important symptoms and effects, both acute and delayed:

See Section 11 for more information.

· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5. Firefighting measures

5.1 Suitable extinguishing media:

Carbon dioxide (CO₂). Alcohol resistant foam. Dry powder. Atomized water.

5.2 Unsuitable extinguishing media:

Running water.

5.3 Special hazards arising from the substance or mixture:

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: CO y CO₂.

5.4 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment. Cool the recipients with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes. Use personal protective equipment as required. Avoid contact with the skin, eyes or clothing. Avoid sources of ignition. Do not smoke. Ensure good ventilation and renewal of the air in the premises.

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. Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours or spray. Avoid contact with the skin, eyes or clothing. Use personal protective equipment as required. Handle under an extractor fan.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In a cool, dry, well ventilated place. Away from sources of ignition and heat. Do not store in plastic containers.

Recommended storage temperature: Room temperature.

• **Storage class:** 3

Technical instructions (air): Highly flammable.

7.3 Specific end use(s):

No further relevant information available.

8. Exposure controls/personal protection

8.1 Exposure controls:

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

8.2 Control parameters:

Derived No Effect Level (DNEL)

Population, oral, long term (systemic): 699mg/kg bw/24h

Population, Dermal, long exposure (systemic): 699mg/kg bw/24h

Workers Dermal, long exposure (systemic): 773mg/kg bw/24h

Population Inhalation, long term (systemic): 608 mg/m³

Workers Inhalation, long term (systemic): 2.035 mg/m³

8.3 Respiratory protection:

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

8.4 Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Material: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0,4$ mm Breakthrough time: ≥ 480 min.

- **As protection from splashes gloves made of the following materials are suitable:**

Material: Polychloroprene. Recommended thickness of the material: $\geq 0,65$ mm Breakthrough time: ≥ 120 min.

8.5 Eye/face protection:

Use safety glasses.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Avoid pollution of the soil, water supplies and drains.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: $-107,4$ °C

Initial boiling point and boiling range: $99,3$ °C

Flash point: -12 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: $6\%(\text{V}) / 1,1\%(\text{V})$

Vapour pressure: N/A

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) $0,69$ g/ml

Solubility: Immiscible with water.

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A
Kinematic viscosity: N/A
Dynamic viscosity: 0,47 mPa.s (25 °C)

10. Stability and reactivity

10.1 Conditions to avoid:

No special indications.

10.2 Incompatible materials:

Strong oxidant agents.

10.3 Hazardous decomposition products:

No specific data.

10.4 Chemical stability:

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

11. Toxicological information

11.1 Acute toxicity:

: Data not available.

11.2 Dangerous effects for health:

Skin corrosion/irritation: Irritations to the skin and mucosae. **Serious eye damage/irritation:** Not irritant. **Respiratory or skin sensitisation:** No evidence. **Germ cell mutagenicity:** Data not available. **Carcinogenicity:** Data not available. **Reproductive toxicity:** Data not available. **STOT- single exposure:** Data not available. **STOT-repeated exposure:** drowsiness, vertigo **Aspiration hazard:** Classified as:, Asp. Tox. 1

12. Environmental information

12.1 Toxicity:

Ecotoxic for fish.

12.2 Persistence and Degradability :

Data not available.

12.3 Bioaccumulative potential:

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:

Do not allow it to enter soils or water channels.
Dangerous for drinking water.

12.7 General notes:

· **Water hazard class:**

(German Regulation) (Assessment by list):

2 hazardous for water.

(Dutch Regulation):

4 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

.

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.

.

14. Transport information

Overland (ADR):

Technical name: OCTANES

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

By sea (IMDG):

Technical name: OCTANES

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

By air (ICAI-IATA):

Technical name: Octanes

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

Packaging instructions: CAO 364 PAX 353

15. Regulatory information

Categorized as hydrocarbon substance.

For this product a chemical safety assessment was not carried out.

16. Other information

Other precautionary statements

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): **R11** Highly flammable.
 R38 Irritating to skin.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrases(s): **S9** Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S29 Do not empty into drains.
 S33 Take precautionary measures against static discharges.
 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.

Version and revision date : 7 07.10.2013

Remplaced: 17.04.2013

In respect of the previous review, changes have been made to the following sections: 4,5,6,7,8,10,11,12,15

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.