



Safety Data Sheet
According to Regulation (EC) 1907/2006
and (EU) 453/2010

1315 Petroleum Ether 40-60°C

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

1.1 Product identifier

Name:

Petroleum Ether 40-60°C

Synonym:

Ligroin, Naphtha, Petroleum Benzin

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

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

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) n° 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).

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

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.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

Mixture of hydrocarbons, chiefly consisting of:
n-pentane. 2-methylpentane.
Name: Petroleum Ether 40-60°C
EC index number: 649-328-00-1

COMPOSITION:

0001: n-Pentane

Formula: C₅H₁₂ 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

Content: >= 25 % <= 50 %

Classification Regulation (CE) n° 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, 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.

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.

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

N Dangerous for the environment	R67 Vapours may cause drowsiness and dizziness.
Xn Harmful	R66 Repeated exposure may cause skin dryness or cracking.
F+ Extremely flammable	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.

0002: Isohexane - Mixture of isomers

Formula: C₆H₁₄ M.= 86,18 CAS [64742-49-0]
EC number (EINECS): 265-151-9
EC index number: 601-007-00-7

Content: >= 50 % <= 100 %

Classification Regulation (CE) nº 1272/2008.

Flam. Liq. 2
Asp. Tox. 1
Acute Toxicity Inhalation cat. 4
Skin Irrit. 2
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.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P243 Take precautionary measures against static discharge.
P242 Use only non-sparking tools.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
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.
P352 Wash with plenty of soap and water.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use for extinction.
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.
P273 Avoid release to the environment.
P391 Collect spillage.

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

F Highly flammable
Xn Harmful
Xi Irritant
N Dangerous for the environment

R11 Highly flammable.
R65 Harmful: may cause lung damage if swallowed.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

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 soap and 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. Risk of aspiration. Call for medical help. Administer Vaseline oil as a laxative (3 ml/kg). Administer a solution of medical-usage active charcoal. Avoid stomach lavage.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· 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). Smother with dry earth or sand. Dry powder.

5.2 Unsuitable extinguishing media:

Water.

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 In the event of fire, toxic fumes may form.

5.4 Advice for firefighters:

Self-contained breathing equipment. Use complete protective 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. Avoid breathing dust, fume, gas, mist, vapours or spray. Ensure good ventilation and renewal of the air in the premises. Handle with caution. 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. Away from light. 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:

PELn-pentane: 1.000 ppm = 3.000 mg/m³

Derived No Effect Level (DNEL)

iso-pentane Population, oral, long term (systemic): 1301mg/kg bw/24h
Population, Dermal, long exposure (systemic): 1377mg/kg bw/24h
Workers Dermal, long exposure (systemic): 13964mg/kg bw/24h
Population Inhalation, long term (systemic): 1.131 mg/m³
Workers Inhalation, long term (systemic): 5.306 mg/m³
n-pentane Population, oral, long term (systemic): 214mg/kg bw/24h
Population, Dermal, long exposure (systemic): 214mg/kg bw/24h
Workers Dermal, long exposure (systemic): 432mg/kg bw/24h
Population Inhalation, long term (systemic): 643 mg/m³
Workers Inhalation, long term (systemic): 3.000 mg/m³

8.3 Respiratory protection:

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

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. Use suitable gloves

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

Material: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.4 mm Breakthrough time: ≥ 480 min.

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

Material: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.11 mm Breakthrough time: ≥ 30 min

8.5 Eye/face protection:

Use safety glasses.

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:

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: N/A

Initial boiling point and boiling range: 40 - 60 °C

Flash point: - 21 °C

Flammability (solid, gas):

N/A

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

Vapour pressure: 350 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

0,65 g/ml (15 °C)

Solubility: in () Insoluble in water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 245 °C

Decomposition temperature: N/A

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

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 : 2.000 mg/kg iso-pentane

LD50 oral rat : > 2.000 mg/kg n-pentane

LD50 skn rbt : 4.000 mg/kg iso-pentane

LC50 inh rat : 54 mg/l iso-pentane 4h

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:** Data not available. **Aspiration hazard:** Data not available.

Most important symptoms and effects acute: Upon contact with the skin: Irritations to the skin and mucosae.

12. Environmental information

12.1 Toxicity:

May cause long-term adverse effects in the aquatic environment.
Possibly toxic for fish and plankton.

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 :

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria for PBT (persistent / bioaccumulative / toxic).

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria vPvB (very persistent / very bioaccumulative).

12.6 Other adverse effects:

Do not allow it to enter soils or water channels.
Water-pollutant product.

12.7 General notes:

· **Water hazard class:**

(German Regulation) (Assessment by list):

2 hazardous for water.

(Dutch Regulation):

6 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.

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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: PETROLEUM DISTILLATES, N.O.S.

UN 1268 Class: 3 PELIG.MED.AMB. CONTAM.MAR Packaging group: II (D/E)

By sea (IMDG):

Technical name: PETROLEUM DISTILLATES, N.O.S.

UN 1268 Class: 3 PELIG.MED.AMB. CONTAM.MAR Packaging group: II

By air (ICAI-IATA):

Technical name: Petroleum distillates, n.o.s.

UN 1268 Class: 3 PELIG.MED.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-phrase(s): **R11** Highly flammable.
 R38 Irritating to skin.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.
- S-phrase(s): **S9** Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S33 Take precautionary measures against static discharges.
 S43h In case of fire, use sand, carbon dioxide or dry chemical powder. Never use water.
 S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
 S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 S24 Avoid contact with skin.

Version and revision date : 7 24.02.2017

Replaced: 22.05.2012

In respect of the previous review, changes have been made to the following sections: 1,3

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.