

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product form	: Substance (UVCB)
Trade name	: Petroleum ether 40-60 EPR, Ph. Eur
Chemical name	: Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction With hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (– 4°F to 374°F).]
IUPAC name	: Naphtha (petroleum), hydrotreated light
EC Index-No.	: 649-328-00-1
EC-No.	: 265-151-9
CAS-No.	: 64742-49-0
Product code	: PEET-40P

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

## Relevant identified uses

Main use category	: Laboratory use
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## 1.3. Details of the supplier of the safety data sheet

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt, SPAIN  
ES  
T +34 937 07 79 70, F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com), [www.labbox.com](http://www.labbox.com)

## 1.4. Emergency telephone number

Emergency number	: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.
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Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Reproductive toxicity, Category 2	H361
Specific target organ toxicity — Single exposure, Category 3,	H336
Narcosis	
Specific target organ toxicity — Repeated exposure, Category	H373
2	
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard,	H411
Category 2	
Full text of H and EUH statements: see section 16	



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

## 2.3. Other hazards

PBT: not relevant – no registration required

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type

: UVCB

Name	Product identifier	%
Petroleum ether 40-60	CAS-No.: 64742-49-0 EC-No.: 265-151-9 EC Index-No.: 649-328-00-1	100

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.  
First-aid measures after skin contact : Rinse skin with water/shower. Take off contaminated clothing.  
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Consult an eye specialist.  
First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Vapours are heavier than air and may spread along floors.  
Hazardous decomposition products in case of fire : Corrosive vapours.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not inhale vapour.

#### For non-emergency personnel

Emergency procedures : Mechanically ventilate the spillage area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Risk of explosion.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Keep containers closed.  
Precautions for safe handling : Eliminate all ignition sources if safe to do so. Ensure good ventilation of the work station.  
Take precautionary measures against static discharge.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Storage area : Store in a well-ventilated place. Store away from heat.  
Special rules on packaging : Store in a closed container. Keep only in original container.

### 7.3. Specific end use(s)

Laboratory chemicals.



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL and PNEC

Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	25,9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,25 mg/m <sup>3</sup>

#### 8.2. Exposure controls

##### Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

###### Personal protective equipment:

EN 374.

###### Personal protective equipment symbol(s):



##### Eye and face protection

###### Eye protection:

Chemical goggles or safety glasses

##### Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

protective gloves

##### Respiratory protection

###### Respiratory protection:

Wear appropriate mask

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: -100 °C
Freezing point	: Not available
Boiling point	: 40 – 60 C°
Flammability	: Not available
Lower explosion limit	: 0,8 vol %
Upper explosion limit	: 8 vol %
Flash point	: -21 °C
Auto-ignition temperature	: 250 °C
Decomposition temperature	: Not available
pH	: Not available



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Viscosity, kinematic	: Not available
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0,653 g/ml
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosion limits : 0,8 – 8 vol %

#### Other safety characteristics

VOC content : 100 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

Heating may cause an explosion.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)

LOAEC (inhalation, rat, vapour, 90 days)	4,71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	2,355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

Aspiration hazard : May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)

LC50 - Fish [1]	8,41 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Daphnia [1]	4,7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	12,4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	18,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

### 12.2. Persistence and degradability

### Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)

Persistence and degradability	Rapidly degradable
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

### Petroleum ether 40-60 EPR, Ph. Eur (64742-49-0)

PBT: not relevant – no registration required
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### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste treatment methods : Must follow special treatment according to local regulation.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

- UN-No. (ADR) : UN 1268
- UN-No. (IMDG) : UN 1268
- UN-No. (IATA) : UN 1268
- UN-No. (ADN) : UN 1268
- UN-No. (RID) : UN 1268

#### 14.2. UN proper shipping name

- Proper Shipping Name (ADR) : PETROLEUM DISTILLATES, N.O.S.
- Proper Shipping Name (IMDG) : PETROLEUM DISTILLATES, N.O.S.
- Proper Shipping Name (IATA) : Petroleum distillates, n.o.s.
- Proper Shipping Name (ADN) : PETROLEUM DISTILLATES, N.O.S.
- Proper Shipping Name (RID) : PETROLEUM DISTILLATES, N.O.S.
- Transport document description (ADR) (ADR) : UN 1268 PETROLEUM DISTILLATES, N.O.S. (Petroleum distillates, n.o.s.), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS
- Transport document description (IMDG) : UN 1268 PETROLEUM DISTILLATES, N.O.S. (Petroleum distillates, n.o.s.), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
- Transport document description (IATA) : UN 1268 Petroleum distillates, n.o.s. (Petroleum distillates, n.o.s.), 3, II, ENVIRONMENTALLY HAZARDOUS
- Transport document description (ADN) : UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS
- Transport document description (RID) : UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

##### ADR

- Transport hazard class(es) (ADR) : 3
- Danger labels (ADR) : 3
- :



##### IMDG

- Transport hazard class(es) (IMDG) : 3
- Danger labels (IMDG) : 3
- :



##### IATA

- Transport hazard class(es) (IATA) : 3
- Danger labels (IATA) : 3
- :





# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### ADN

Transport hazard class(es) (ADN) : 3  
Danger labels (ADN) : 3  
:



### RID

Transport hazard class(es) (RID) : 3  
Danger labels (RID) : 3  
:



### 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II  
Packing group (ADN) : II  
Packing group (RID) : II

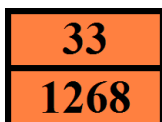
### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 640C, 664  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28  
Tank code (ADR) : L1.5BN  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : 3YE

#### Transport by sea

Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP8, TP28



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Stowage category (IMDG) : B  
Properties and observations (IMDG) : Immiscible with water.

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3H

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 640C  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 640C  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : L1.5BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

#### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3.	Petroleum ether 40-60 EPR, Ph. Eur
28.	Petroleum ether 40-60 EPR, Ph. Eur
29.	Petroleum ether 40-60 EPR, Ph. Eur
3(a)	Petroleum ether 40-60 EPR, Ph. Eur
3(b)	Petroleum ether 40-60 EPR, Ph. Eur
3(c)	Petroleum ether 40-60 EPR, Ph. Eur



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### REACH Annex XIV (Authorisation List)

Petroleum ether 40-60 EPR, Ph. Eur is not on the REACH Annex XIV List

### REACH Candidate List (SVHC)

Petroleum ether 40-60 EPR, Ph. Eur is not on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

{0} is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

### POP Regulation (Persistent Organic Pollutants)

{0} is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

### Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### VOC Directive (2004/42)

VOC content : 100 %

### Explosives Precursors Regulation (2019/1148)

Not listed on the Explosives Precursors list (EU)

### Drug Precursors Regulation (273/2004)

Not listed on the Drug Precursors list (EU)

### National regulations

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).  
VOC content : 100 %

### Netherlands

SZW-lijst van kankerverwekkende stoffen : Petroleum ether 40-60 is listed  
SZW-lijst van mutagene stoffen : Petroleum ether 40-60 is listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No additional information available



# Petroleum ether 40-60 EPR, Ph. Eur

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 16: Other information

#### Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.