

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

#### 1.1. Product identifier

Chemical type	: Substance
Substance name	: Extracts (petroleum), residual oil solvent
Trade name	: FLUIBRAX EURO 40
EC no	: 265-110-5
CAS No.	: 64742-10-5
REACH registration No.	: 01-2119488175-30-0013
Product code	: 27L, SDS # PbR0268
Synonyms	: None known

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

##### 1.2.1. Relevant identified uses

Use of the substance/preparation	: Manufacture of substances Intermediate Formulation [mixing] of preparations and/or re-packaging Coatings Metal working fluids Release agent. Agrochemicals Building and construction work. Road work Manufacture of rubber products. Polymer preparations and compounds Fuels Lubricant Functional fluids Binding agent
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##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Petrobras International Braspetro B.V. – PIB BV  
Prins Bernhardplein 200, 1097 – JB Amsterdam  
The Netherlands

All communications shall be addressed exclusively to the following address:  
Petrobras Europe Ltd  
4th Floor, 20 North Audley Street  
London W1K 6WL – United Kingdom  
Fax number: +44(0) 20 7355 8750  
E-mail: reach@petrobras.com.br

#### 1.4. Emergency telephone number

Emergency number	: For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada (collect calls accepted): 1-703-527-3887
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### SECTION 2: Hazards identification

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

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

Not classified

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

##### Adverse physicochemical, human health and environmental effects

No data available.

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

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according to Regulation (EC) No. 453/2010

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Extracts (petroleum), residual oil solvent	(CAS No.) 64742-10-5 (EC no) 265-110-5	100	Not classified

  

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Extracts (petroleum), residual oil solvent	(CAS No.) 64742-10-5 (EC no) 265-110-5	100	Not classified

Full text of R-, H- and EUH-phrases: see section 16.

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of breathing difficulties administer oxygen. Seek medical advice (show the label where possible).
- First-aid measures after skin contact : Take off immediately all contaminated clothing, including underwear and shoes. In case of skin contact, wash immediately with mineral or vegetable oils. Rinse skin with water/shower. Seek medical advice (show the label where possible).
- First-aid measures after eye contact : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Immediately get medical attention. Seek medical advice (show the label where possible).
- First-aid measures after ingestion : Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice (show the label where possible).

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

- Symptoms/injuries after inhalation : Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Symptoms/injuries after skin contact : Slightly irritating to skin. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
- Symptoms/injuries after eye contact : Slightly irritating to eyes. Heated product causes burns.
- Symptoms/injuries after ingestion : Nausea.

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

Ingestion unlikely. Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: : Carbon dioxide (CO<sub>2</sub>). Foam. Powder. Water spray.

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

Fire hazard : Combustible.

Reactivity : Hazardous combustion products. Carbon dioxide. Sulfur oxides. Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.

Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Refer to section 8.

Other information : Cool tanks/drums with water spray/remove them into safety.

### SECTION 6: Accidental release measures

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

General measures : Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Refer to section 8.

Emergency procedures : Stop leak if safe to do so. Remove all sources of ignition.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. In case of fire: Wear self-contained breathing apparatus. Refer to section 8.

Emergency procedures : Evacuate unnecessary personnel. Remove all sources of ignition. Stop leak if safe to do so. Eliminate leaks immediately.

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### 6.2. Environmental precautions

Stop leak if safe to do so. Do not discharge into drains or the environment. Do not discharge into surface water. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Contaminated fire-fighting water must be collected separately.

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

- For containment : Collect in closed containers for disposal. Do not empty into drains or the aquatic environment. Waste for disposal is to be classified and marked. Waste is to be kept separate from other types of waste until its disposal. Dispose of this material and its container to hazardous or special waste collection point. Consult the local waste disposal expert about waste disposal. Disposal must be done according to official regulations.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal. Minimize water use for cleaning.
- Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

### 6.4. Reference to other sections

Refer to sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety procedures. Ground/bond container and receiving equipment. Use only non-sparking tools.

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

- Technical measures : Provide adequate ventilation. Ground equipment electrically. Only use anti-static equipped (spark-free) tools.
- Incompatible materials : Oxidizing agents, strong.
- Storage area : The floor of the depot should be impermeable and designed to form a tight basin. Store at room temperature.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Extracts (petroleum), residual oil solvent (64742-10-5)		
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Belgium	Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
FLUIBRAX EURO 40 (64742-10-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	140 mg/m <sup>3</sup> /day	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	5.2 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	30 mg/m <sup>3</sup> /day	
Long-term - systemic effects, dermal	5.2 mg/kg bodyweight/day	

### 8.2. Exposure controls

- Appropriate engineering controls : Provide adequate ventilation. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
- Personal protective equipment : Gloves. Protective goggles. Protective clothing.



- Hand protection : Protective gloves made of rubber or PVC.
- Eye protection : Wear eye protection/face protection.
- Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.
- Respiratory protection : Work in well ventilated zones or use proper respiratory protection. In case of insufficient ventilation, wear suitable respiratory equipment. In case of fire: Wear self-contained breathing apparatus.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: opaque.
Colour	: black.
Odour	: Solvents.
Odour threshold	: No data available
pH	: No data available
Melting point	: > 20 °C Pour point
Solidification point	: No data available
Boiling point	: 367.8-704.4 °C
Flash point	: 290 °C ASTM D 92
Relat. evapor. rate comp. to butylacetate	: No data available
Flammability (solid, gas)	: not applicable
Explosive limits	: not applicable
Vapour pressure	: < 5 mmHg @ 25°C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.95 g/cm <sup>3</sup> @ 20°C
Solubility	: Soluble in organic solvents. Water: Negligible.
Log Pow	: not applicable
Self ignition temperature	: > 350 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 2390 cSt @ 40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Hazardous combustion products. Carbon dioxide. Sulfur oxides. Nitrogen oxides (NOx).

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### 10.5. Incompatible materials

Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

No data available.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Extracts (petroleum), residual oil solvent (64742-10-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Ames test negative. Not classifiable as to carcinogenicity to humans (IARC Group 3).

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

Extracts (petroleum), residual oil solvent (64742-10-5)	
LC50 fishes	> 1000 mg/l 96 hours
EC50 Daphnia	> 100 mg/l 48 hours
EC50 Daphnia	> 100 mg/l 48 hours
NOEC (acute)	> 1000 mg/l 96 hours- fish
NOEC (chronic)	> 100 mg/l 21 days- daphnia

#### 12.2. Persistence and degradability

FLUIBRAX EURO 40 (64742-10-5)	
Persistence and degradability	No data available.

#### 12.3. Bioaccumulative potential

FLUIBRAX EURO 40 (64742-10-5)	
Log Pow	not applicable
Bioaccumulative Potential	No data available.

#### 12.4. Mobility in soil

FLUIBRAX EURO 40 (64742-10-5)	
Ecology - soil	No data available.

#### 12.5. Results of PBT and vPvB assessment

FLUIBRAX EURO 40 (64742-10-5)	
This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.	

#### 12.6. Other adverse effects

Other adverse effects : No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Consult the local waste disposal expert about waste disposal. Do not empty into drains or the aquatic environment. Waste is to be kept separate from other types of waste until its disposal. Dispose of this material and its container to hazardous or special waste collection point. Disposal must be done according to official regulations.

### SECTION 14: Transport information

Not a dangerous good in sense of transport regulations.

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC) 1272/2008 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended.

##### 15.1.2. National regulations

Regional legislation : No data has been reported. In case of need contact our Product Safety office.

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

#### 15.2. Chemical safety assessment

CSA has not been established. The substance is not classified as dangerous.

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### SECTION 16: Other information

Sources of Key data : PETROBRAS. MSDS.  
Abbreviations and acronyms : ASTM - American Society for Testing and Materials . CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. GHS - Globally Harmonised System. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet.

*The information presented in this Safety Data Sheet is based on current knowledge and is believed to be complete and accurate. It describes the product for the purposes of health, safety and environment requirements only and shall, therefore, be used only as a guide. The data refers to a specific product and may not be valid for combined uses with other products. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Petrobras shall not be responsible for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices.*