

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

1.1. Product identifier

Chemical type	: Substance
Substance name	: Petrolatum
Trade name	: Petrolatum
EC index no	: 649-254-00-X
EC no	: 232-373-2
CAS No.	: 8009-03-8
REACH registration No.	: 01-2119490412-42-0011
Product code	: 415 SDS#PbR0225
Synonyms	: Slack Wax Bright Stock / Petroleum Jelly / Soft Paraffin

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 Manufacture of rubber products. Fuels Lubricant Functional fluids Binding agent Agrochemicals Laboratory chemicals Consumer use Release 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

irritating vapours vapours may be released. High concentration of vapours may induce: headache, nausea, dizziness.

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.

other hazards which do not result in classification	: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
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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
Petrolatum	(CAS No.) 8009-03-8 (EC no) 232-373-2 (EC index no) 649-254-00-X	100	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petrolatum	(CAS No.) 8009-03-8 (EC no) 232-373-2 (EC index no) 649-254-00-X	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. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical advice (show the label where possible).
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Rinse immediately with plenty of water for 15 minutes. Seek medical attention immediately.
- First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Seek immediate medical advice.

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

- Symptoms/injuries : High concentration of vapours may induce: headache, nausea, dizziness.
- Symptoms/injuries after inhalation : Vapours are irritating to the respiratory system.
- Symptoms/injuries after skin contact : Prolonged/repetitive skin contact may cause skin defatting or dermatitis. The melted product adheres to the skin and causes burns.
- Symptoms/injuries after eye contact : No significant hazards. The melted product can cause severe burns.

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

In case of skin or eye contact with the heated product, wash with cold water and remove the solidified product with vegetable or mineral oil.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media: : carbon dioxide (CO₂), dry chemical powder, foam. Water spray.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Hazardous combustion products. Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x). hydrocarbons.
- Reactivity : None known.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing gloves, and eye/face protection. Refer to section 8.
- Emergency procedures : Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection. Refer to section 8.
- Emergency procedures : Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. Avoid contact with skin and eyes. Evacuate unnecessary personnel. Avoid release to the environment.

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6.2. Environmental precautions

Do not discharge into drains or the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Sweep up or vacuum up the product. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect up the product and place it in a spare container: - suitably labelled. When in liquid state (heated) must be chilled with water to solidify. Do not remove as household garbage.

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 : Provide local exhaust or general room ventilation to minimize vapour concentrations. Avoid contact with skin, eye and clothing. Avoid all unnecessary exposure. Handle in accordance with good industrial hygiene and safety procedures. Only use anti-static equipped (spark-free) tools.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: : Floors should be impenetrable, resistant to liquids and easy to clean. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Storage condition(s) : Store in cardboard boxes with 25 kg in tank truck. Non oxidizing material according to EC criteria. Store in a dark area. Store at temperatures not exceeding 84°C.
Incompatible materials : Strong oxidizing agents. Peroxides. Chlorates. chromic acid.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petrolatum (8009-03-8)		
Belgium	Limit value (mg/m ³)	5 mg/m ³
Belgium	Short time value (mg/m ³)	10 mg/m ³ 15 minutes
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³ 15 minutes
Spain	VLA-ED (mg/m ³)	5 mg/m ³
Spain	VLA-EC (mg/m ³)	10 mg/m ³ 15 minutes
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1 mg/m ³
Finland	HTP-arvo (15 min)	5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	3 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Exposures should be minimized in accordance with good industrial hygiene practices. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Protective goggles. Gloves.



Hand protection : Protective gloves made of PVC.

Eye protection : Chemical goggles or face shield with safety glasses.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. In confined space use self-contained breathing apparatus.

Environmental exposure controls : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

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Appearance	: at room temperature. solid.
Colour	: light brown.
Odour	: None.
Odour threshold	: No data available
pH	: Not applicable
Melting point	: 77 °C
Solidification point	: No data available
Boiling point	: 219.9-720 °C
Flash point	: 161 °C ASTM D 92
Relat. evapor. rate comp. to butylacetate	: No data available
Flammability (solid, gas)	: not applicable
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.83 g/cm ³ at 90°C
Solubility	: Soluble in toluene. 14.5g/100g at 20°C. Water: insoluble
Log Pow	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 16.5 cSt at 100 °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

None known.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Peroxides. chromic acid. Chlorides.

10.6. Hazardous decomposition products

low molecular weight hydrocarbons. Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x). On exposure to high temperature, may decompose, releasing toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Petrolatum (8009-03-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	not applicable

Skin corrosion/irritation : Not classified
pH: Not applicable

Serious eye damage/irritation : Not classified
pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified (EC CLP Note N applies. Full refining history is known and are non- carcinogenic.)

Reproductive toxicity : Not classified

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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	: High concentration of vapours may induce: headache, nausea, dizziness. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. The melted product can cause severe burns.
Other information	: IP 346 <3.0%.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Petrolatum (8009-03-8)	
LC50 fishes	> 100 mg/l 96 hours
EC50 Daphnia	> 10000 mg/l 48 hours- daphnia
ErC50 (algae)	> 100 mg/l 72 hours

12.2. Persistence and degradability

No additional information available

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

Petrolatum (8009-03-8)
This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. Dispose of this material and its container to hazardous or special waste collection point.

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

No ingredients included in the REACH Candidate list

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

No additional information available

15.2. Chemical safety assessment

CSA has not been completed.

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.

SDS PETROBRAS USES

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.