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

1.1. Product identifier
Product name: Pirtek Hydraulic Oil 10
Product number: P8010
Internal identification: GHS22742

1.2. Relevant identified uses of the substance or mixture and uses advised against
Uses advised against: Non-specified unless otherwise stated within this MSDS

1.3. Details of the supplier of the safety data sheet
Supplier: Pirtek UK Ltd
199 The Vale
Acton
London
W3 7QS
Tel: 0208 749 8444
Fax: 0208 749 8333
info@pirtek.co.uk

1.4. Emergency telephone number
Emergency telephone: Pirtek UK Ltd Emergency Tel: 0800 382 438
Mon – Fri 9am – 5pm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification
Physical hazards: Not Classified
Health hazards: Asp. Tox. 1 - H304
Environmental hazards: Not Classified

Classification (67/548/EEC or 1999/45/EC)

2.2. Label elements
Pictogram

Signal word: Danger
Hazard statements: H304 May be fatal if swallowed and enters airways.
Pirtek Hydraulic Oil 10

Precautionary statements
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501a Dispose of contents/container to hazardous or special waste collection point.

Contains
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Distillates (petroleum), solvent-dewaxed heavy paraffinic</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64742-65-0</td>
<td></td>
</tr>
<tr>
<td>EC number: 265-169-7</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119471299-27-XXXX</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1 - H304</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
<tr>
<td>EC number: 934-956-3</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119827000-58-XXXX</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1 - H304</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Get medical attention if any discomfort continues.

Inhalation
If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.

Ingestion
Get medical attention if any discomfort continues. Do not induce vomiting. Product contains petroleum based material, which, if aspirated into the lungs may result in chemical pneumonia.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

General information
If aspiration into the lungs is suspected, eg when vomiting, admit to hospital immediately.

Inhalation
Upper respiratory irritation. Harmful by inhalation.

Ingestion
May cause discomfort if swallowed.
Pirtek Hydraulic Oil 10

Skin contact
Prolonged contact may cause redness, irritation and dry skin.

Eye contact
Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Heat from fire could result in drums bursting

Hazardous combustion products
Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic gases some of which may be toxic.

5.3. Advice for firefighters
Protective actions during firefighting
Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions
Environmental precautions
Contain spillage with sand or earth. Avoid the spillage or runoff entering drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Contain spillage with sand or earth. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment.

6.4. Reference to other sections
Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Avoid spilling. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product.
Pirtek Hydraulic Oil 10

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions  Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class  Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
Short-term exposure limit (15-minute): ACGIH 10 mg/m³

Highly refined mineral oil (C15 - C50)

Long-term exposure limit (8-hour TWA): 5 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Inhalation: 5.4 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC</td>
<td>9.33 mg/kg</td>
</tr>
</tbody>
</table>

2-ethylhexyl zinc dithiophosphate (CAS: 4259-15-8)

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Workers - Dermal; systemic effects: 0.14 mg/kg/day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Workers - Inhalation; systemic effects: 0.422 ppm</td>
</tr>
<tr>
<td></td>
<td>Workers - Inhalation; Long term systemic effects: 0.07 ppm</td>
</tr>
<tr>
<td></td>
<td>Workers - Dermal; local effects: 0.09 mg/cm²</td>
</tr>
<tr>
<td></td>
<td>Workers - Inhalation; local effects: 0.42 ppm</td>
</tr>
<tr>
<td></td>
<td>Workers - Inhalation; Long term systemic effects: 0.21 ppm</td>
</tr>
<tr>
<td></td>
<td>Workers - Dermal; Long term systemic effects: 0.09 mg/cm²</td>
</tr>
<tr>
<td></td>
<td>Workers - Dermal; Long term systemic effects:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC</th>
<th>Fresh water: 0.004 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Soil: 0.0548 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Sediment (Freshwater): 0.0701 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine water: 0.0046 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sediment (Marinewater): 0.00701 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP: 3.8 mg/l</td>
</tr>
<tr>
<td></td>
<td>Air: 7.1 mg/m³</td>
</tr>
</tbody>
</table>

benzenesulfonic acid, mono-C16-24-alkyl derivs.

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Workers - Dermal; Long term systemic effects: 3.33 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Workers - Inhalation; Long term systemic effects: 0.66 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Dermal; Long term systemic effects:</td>
</tr>
<tr>
<td></td>
<td>Consumer - Inhalation; Long term systemic effects: 0.33 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumer - Oral; Long term systemic effects:</td>
</tr>
</tbody>
</table>
Pirtek Hydraulic Oil 10

PNEC
- Fresh water; 1 mg/l
- Soil; 868700000 mg/kg
- Sediment (Freshwater); 723500000 mg/kg
- STP; 100 mg/l
- Marine water; 1 mg/l
- Intermittent release; 10 mg/l
- Sediment (Marine water); 723500000 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection
The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection
Use barrier creams to prevent skin contact.

Hygiene measures
Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection
Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Thermal hazards
Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.

Environmental exposure controls
Do not allow product to contaminate land.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Pale yellow

Odour
Oleaginous

Odour threshold
Not determined.

pH
Not applicable.

Melting point
Not applicable.

Initial boiling point and range
>320°C @ 101.3 kPa

Flash point
160°C

Upper/lower flammability or explosive limits
Not known.
**Pirtek Hydraulic Oil 10**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other flammability</td>
<td>Product is not flammable but on excessive heating may become combustible.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt;0.1 kPa @ 20°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.845 @ 15°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water. Soluble in the following materials: Organic solvents.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>10 cSt @ 40°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Explosive under the influence of a flame</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Unlikely to occur under normal conditions of use. Unlikely to occur.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid
Strong oxidising agents.

10.6. Hazardous decomposition products
Hazardous decomposition products
None at ambient temperatures.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀)
Not expected to be highly toxic based on information of ingredients.

Acute toxicity - dermal
Notes (dermal LD₅₀)
Not expected to be highly toxic based on information of ingredients.
**Pirtek Hydraulic Oil 10**

**Acute toxicity - inhalation**

Notes (inhalation LC₅₀)

Not determined. The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.

**Serious eye damage/irritation**

May cause mild, short lasting discomfort to eyes.

**Respiratory sensitisation**

Repeated exposure to oil mists may cause respiratory damage.

**Skin sensitisation**

Not expected to be a skin sensitizer based on information on components.

**Reproductive toxicity**

No data available to suggest the product will cause reproductive toxicity.

**Aspiration hazard**

Kinematic viscosity ≤ 20.5 cSt @ 40 C. Product may be considered an aspiration hazard under CLP regulations.

**General information**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

**Inhalation**

Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

**Ingestion**

Swallowing significant quantities may cause discomfort, nausea, diarrhoea and irritation of the digestive tract. Aspiration into the lungs (e.g. through vomiting) after ingestion can be hazardous with possible resultant chemically induced pneumonia.

**Skin contact**

Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

**Eye contact**

May cause temporary eye irritation.

**Acute and chronic health hazards**

Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

**SECTION 12: Ecological Information**

**Ecotoxicity**

The product is not expected to be hazardous to the environment.

**12.1. Toxicity**

**12.2. Persistence and degradability**

**Persistence and degradability**

The product is not classed as being readily biodegradable by OECD test methods but is considered inherently biodegradable.

**Stability (hydrolysis)**

The product is based on highly refined mineral oils that are considered stable to hydrolysis.

**Biodegradation**

The product is not considered readily biodegradeable, albeit the major constituents are expected to ultimately biodegrade.

**Biological oxygen demand**

Not determined.

**Chemical oxygen demand**

Not determined.

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Pirtek Hydraulic Oil 10

Partition coefficient
Not determined.

12.4. Mobility in soil
Mobility
The product is non-volatile. The product is insoluble in water and will spread on the water surface.

Henry's law constant
Not determined.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Pirtek Hydraulic Oil 10

National regulations
Health and Safety at Work etc. Act 1974 (as amended).
Special Waste regulations 1996.
Control of Pollution (Oil Storage) (England) Regulations 2001

EU legislation
Dangerous Preparations Directive 1999/45/EC.
Dangerous Substances Directive 67/548/EEC.

Guidance
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines – PICCS
All the ingredients are listed or exempt.

New Zealand - NZIOC
All the ingredients are listed or exempt.

SECTION 16: Other information

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by
Regulatory Affairs

Revision date
29/03/2016

Revision
1

SDS number
22742

Risk phrases in full
Not classified.

Hazard statements in full
H304 May be fatal if swallowed and enters airways.
Pirtek Hydraulic Oil 10

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.