



# Perlus H 46

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 15-5-2018 Revision date: 23-11-2020 Supersedes version of: 1-4-2020 Version: 2.3

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Perlus H 46  
Product code : 08.10.10  
Type of product : Lubricants  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Hydraulic oil

##### 1.2.2. Uses advised against

No additional information available

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

Kroon Oil BV  
Dollegoorweg 15  
7602 EC Almelo - Netherlands  
T 0031 (0)546 81 81 65  
[vib@kroon-oil.nl](mailto:vib@kroon-oil.nl)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address                                  | Emergency number   | Comment |
|----------------|--|--|--|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital | Penarth<br>CF64 2XX Cardiff              | 0344 892 0111  |         |

### SECTION 2: Hazards identification

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

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

Not classified

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Highly refined mineral oils and additives.

| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic (Note L) | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1<br>(EC Index-No.) 649-467-00-8<br>(REACH-no) 01-2119484627-25 | 10 – 20 | Asp. Tox. 1, H304   |
| Distillates (petroleum), hydrotreated light paraffinic (Note L) | (CAS-No.) 64742-55-8<br>(EC-No.) 265-158-7<br>(EC Index-No.) 649-468-00-3<br>(REACH-no) 01-2119487077-29 | < 2,5   | Asp. Tox. 1, H304   |

Comments : The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Do not induce vomiting.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.  
Symptoms/effects after ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Combustible liquid.  
Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

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### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

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

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.  
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 container closed when not in use. Keep in a cool, well-ventilated place away from heat.  
Storage temperature : 0 – 40 °C

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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#### EU - Occupational Exposure Limits

|   |   |
|---|---|
| Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended | 5 mg/m <sup>3</sup> - ACGIH TLV (inhalable fraction). |
|---|---|

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### Materials for protective clothing:

Wear suitable protective clothing

### Hand protection:

Protective gloves

| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥ 0.35         |             | EN ISO 374 |

### Eye protection:

Safety glasses

| Type           | Use     | Characteristics | Standard |
|----------------|---------|-----------------|----------|
| Safety glasses | Droplet | clear           | EN 166   |

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                                     |
| Colour  | : Yellow.                                    |
| Odour   | : characteristic.                            |
| Odour threshold                                 | : No data available                          |
| pH  | : No data available                          |
| Relative evaporation rate (butylacetate=1)      | : No data available                          |
| Melting point                                   | : Not applicable                             |
| Freezing point                                  | : -39 °C - ASTM D5950 (pour point)           |
| Boiling point                                   | : No data available                          |
| Flash point                                     | : 200 °C - ASTM D92 (COC)                    |
| Auto-ignition temperature                       | : No data available                          |
| Decomposition temperature                       | : No data available                          |
| Flammability (solid, gas)                       | : Not applicable                             |
| Vapour pressure                                 | : No data available                          |
| Relative vapour density at 20 °C                | : No data available                          |
| Relative density                                | : No data available                          |
| Density   | : 0,858 kg/l (15 °C) - ASTM D4052            |
| Solubility                                      | : Water : Practically not miscible.          |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                          |
| Viscosity, kinematic                            | : 46 mm <sup>2</sup> /s (40 °C) - ASTM D7279 |
| Viscosity, dynamic                              | : No data available                          |

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Explosive properties : Presents no particular fire or explosion hazard.  
Oxidising properties : No data available  
Explosive limits : No data available

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizers.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No decomposition if stored normally.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|                                   |              |
|-----------------------------------|--------------|
| LD50 oral rat                     | > 5000 mg/kg |
| LD50 dermal rabbit                | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 5,53 mg/l/4h |

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

|                       |                |
|-----------------------|----------------|
| LD50 oral rat         | > 5000 mg/kg   |
| LD50 dermal rabbit    | > 2000 mg/kg   |
| LC50 Inhalation - Rat | > 5,53 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

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |   |
|---|---|
| LOAEL (oral, rat, 90 days)  | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

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|----------------------|--|
| Viscosity, kinematic | 46 mm <sup>2</sup> /s (40 °C) - ASTM D7279 |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                |
|---|----------------|
| LC50 fish   | > 100 mg/l 96h |
| EC50 Daphnia  | > 1000 mg/l    |
| NOEC chronic fish   | 1000 mg/l 14d  |
| NOEC chronic crustacea  | 10 mg/l 21d    |
| NOEC chronic algae  | ≥ 100 mg/l 72h |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |  |
|---|--|
| LC50 fish   | > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)            |
| EC50 Daphnia  | > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)               |
| EC50 Daphnia  | > 10000 mg/l (Daphnia magna, 48h) (OECD 202 method)                |
| NOEC (acute)  | ≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method) |
| NOEC chronic fish   | ≥ 1000 mg/l (Oncorhynchus mykiss - QSAR Petrottox, 14/28d)         |
| NOEC chronic crustacea  | 10 mg/l (Daphnia magna, 21d) (OECD 211 method)                     |

### 12.2. Persistence and degradability

| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) |                         |
|---|-------------------------|
| Persistence and degradability                                       | Not established.        |
| Biodegradation  | 31 % (OECD 301F method) |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |                               |
|---|-------------------------------|
| Biodegradation  | 31 % (28d) (OECD 301F method) |

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### 12.3. Bioaccumulative potential

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

|   |                  |
|---|------------------|
| Partition coefficient n-octanol/water (Log Pow) | > 6              |
| Bioaccumulative potential                       | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Component

|   |   |
|---|---|
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|---|---|

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                     |
| European List of Waste (LoW) code          | : 13 01 10* - mineral based non-chlorinated hydraulic oils                                    |

## SECTION 14: Transport information

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

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

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### Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0 %

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

| Section | Changed item                           | Change   | Comments |
|---------|--|----------|----------|
|         | Supersedes                             | Modified |          |
|         | Revision date                          | Modified |          |
|         | Comments                               | Modified |          |
| 3       | Composition/information on ingredients | Modified |          |
| 16      | Abbreviations and acronyms             | Modified |          |

### Abbreviations and acronyms:

|      |   |
|------|---|
| ADN  | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE  | Acute Toxicity Estimate   |
| BCF  | Bioconcentration factor   |
| CLP  | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DMEL | Derived Minimal Effect level  |
| DNEL | Derived-No Effect Level   |
| EC50 | Median effective concentration  |
| IARC | International Agency for Research on Cancer   |
| IATA | International Air Transport Association   |
| IMDG | International Maritime Dangerous Goods  |



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|         |   |
|---------|---|
| LC50    | Median lethal concentration   |
| LD50    | Median lethal dose  |
| LOAEL   | Lowest Observed Adverse Effect Level  |
| NOAEC   | No-Observed Adverse Effect Concentration  |
| NOAEL   | No-Observed Adverse Effect Level  |
| NOEC    | No-Observed Effect Concentration  |
| OECD    | Organisation for Economic Co-operation and Development  |
| PBT     | Persistent Bioaccumulative Toxic  |
| PNEC    | Predicted No-Effect Concentration   |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| vPvB    | Very Persistent and Very Bioaccumulative  |
| BLV     | Biological limit value  |
| CAS-No. | Chemical Abstract Service number  |
| EC-No.  | European Community number   |
| EN      | European Standard   |
| OEL     | Occupational Exposure Limit   |
| SDS     | Safety Data Sheet   |
| WGK     | Water Hazard Class  |

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

|             |   |
|-------------|---|
| Asp. Tox. 1 | Aspiration hazard, Category 1                 |
| H304        | May be fatal if swallowed and enters airways. |
| EUH210      | Safety data sheet available on request.       |

SDS EU (REACH Annex II)

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.