



## SAFETY DATA SHEET HYDRO OIL HD 46

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** HYDRO OIL HD 46

**Product number** 22124

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

**Identified uses** Industrial oil

**Uses advised against** This product must not be used outside of the practices recommended in Section 1 without prior advice from the supplier.

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

**Supplier** PETROL OFİSİ A.Ş.  
Ünalın Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ İstanbul  
Tel: +90 850 339 1919  
Fax: +90 216 275 3854  
madeniyag@petrolofisi.com.tr

**Contact person** Customer Services: madeniyag@petrolofisi.com.tr

#### 1.4. Emergency telephone number

**Emergency telephone** Madeni Yağ Customer Services: 0850 339 1919 (working hours)

**National emergency telephone number** Emergency Medical Services: 112 National Poison Consultance Center: 114

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

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

#### 2.2. Label elements

**Hazard statements** NC Not Classified

**Precautionary statements** P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves, eye and face protection.  
P401 Store in accordance with national regulations.  
P501 Dispose of contents/ container in accordance with national regulations.

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### 2.3. Other hazards

As supplied, the material does not present a health hazard.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b>	<b>95-100%</b>
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0033
<b>Classification</b>	
Not Classified	
<b>Zin bis [O, O-bis (2-ethylhexyl)] bis (diithiophosphate)</b>	<b>&lt;1%</b>
CAS number: 4259-15-8	
<b>Classification</b>	
Eye Dam. 1 - H318	
Aquatic Chronic 2 - H411	
<b>2,6-di-tert-butylphenol</b>	<b>&lt;1%</b>
CAS number: 128-39-2	EC number: 204-884-0
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Skin Irrit. 2 - H315	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased</b>	<b>&lt;1%</b>
CAS number: 122384-87-6	
EC number: 272-234-3	
<b>Classification</b>	
Aquatic Chronic 4 - H413	
<b>Bis(nonilfenil)amin</b>	<b>&lt;1%</b>
CAS number: 36878-20-3	
EC number: 253-249-4	
<b>Classification</b>	
Aquatic Chronic 4 - H413	

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<b>Polyglycol ether</b>	<b>&lt;1%</b>
CAS number: —	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
<b>Fuelsi diesel</b>	<b>&lt;1%</b>
CAS number: 68334-30-5	
EC number: 269-822-7	
<b>Classification</b>	
Carc. 2 - H351	
<b>Calcium bis (dinonilnaftalinsulfonat)</b>	<b>&lt;1%</b>
CAS number: 57855-77-3	
EC number: 260-991-2	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
<b>phenol, (tetrapropenyl) derivatives</b>	<b>&lt;1%</b>
CAS number: 74499-35-7	
EC number: 616-100-8	
M factor (Acute) = 10	
M factor (Chronic) = 10	
<b>Classification</b>	
Skin Corr. 1 - H314	
Eye Dam. 1 - H318	
Repr. 1B - H360	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** Some substances are not classified by legislation. They are self classified by the manufacturer. The DMSO extract by IP 346 of the oil is less than 3%

**Ingredient notes** See Section 8 for occupational exposure limits.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical advice/attention if you feel unwell.
<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

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

**General information** Treat symptomatically.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin contact** No specific symptoms known.

**Eye contact** No specific symptoms known.

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

**Notes for the doctor** Treat symptomatically.

**Specific treatments** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

**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** Not known.

**Hazardous combustion products** A complex mixture of airborne solids, liquids and gases can be released. Carbon monoxide (CO). Oxides of sulphur. Unidentified organic or inorganic compounds. Oxides of carbon. Carbon dioxide (CO<sub>2</sub>). Oxides of nitrogen. Oxides of phosphorus. Metal oxide(s). Hydrogen sulphide (H<sub>2</sub>S).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**For non-emergency personnel** Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

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**For emergency responders** Notification: In case of spillage, notify the local authorities as appropriate or as necessary. Stop the leakage source if it can be done without risk. Limit spillage to prevent further contamination of soil, surface or ground water. Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection. Use suitable techniques such as non-flammable absorbent materials or pumping. When possible or appropriate, remove the contaminated soil from the area. Place contaminated products in disposable boxes and dispose of in accordance with regulations. If a heated material is spilled, allow it to cool before handling with disposal methods.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see Section 13. See Section 1 for emergency contact information. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

### 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** Chemical storage.

### 7.3. Specific end use(s)

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

**Usage description** The product must be used as specified in the data sheet.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

There is no available data.

#### **Distillates (petroleum), hydrotreated heavy paraffinic**

Oil mist: TWA: 5 mg/m<sup>3</sup> (ACGIH). In no case should this limit be exceeded or the local limit, if it is more restrictive.

**Ingredient comments** Oil Mist TWA: 5 mg /m<sup>3</sup> (ACGIH). Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Eu.) TWA: 5 mg/m<sup>3</sup> (8 h.)

**Biological limit values** There is no available data.

**DNEL** There is no available data.

**DMEL** There is no available data.

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### PNEC

There is no available data.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Personal protection

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

#### 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

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

#### Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

#### Environmental exposure controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses.

### SECTION 9: Physical and chemical properties

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

Appearance	Liquid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	~ 230°C OC (Open cup).
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.

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<b>Upper/lower flammability or explosive limits</b>	No specific test data are available.
<b>Other flammability</b>	No specific test data are available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	Inconclusive data.
<b>Bulk density</b>	~ 0,88 @15°C g/ml
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	No specific test data are available.
<b>Auto-ignition temperature</b>	No specific test data are available.
<b>Decomposition Temperature</b>	No specific test data are available.
<b>Viscosity</b>	41,4-50,6 cSt @ 40°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	No suitable data is available.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

### 9.2. Other information

<b>Other information</b>	No information required.
<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	No information available.
<b>Volatility</b>	No information available.
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

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**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising agents.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Methacrylates. Oil vapors in case of overheating.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Information given is based on product data, a knowledge of the components and the toxicology of similar products.

**Other health effects** No relevant information available.

#### Acute toxicity - oral

**Summary** Based on available data, the classification criteria are not met.

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Summary** Based on the available data, the classification criteria are not met.

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Summary** Based on the available data, the classification criteria are not met.

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Summary** Based on the available data, the classification criteria are not met.

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

**Animal data** Inconclusive data.

**Human skin model test** Inconclusive data.

**Extreme pH** Inconclusive data.

#### Serious eye damage/irritation

**Summary** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Summary** Based on available data, the classification criteria are not met. Mist may cause slight irritation if inhaled.

**Respiratory sensitisation** Inconclusive data.

#### Skin sensitisation

**Summary** Does not meet the classification criteria.

**Skin sensitisation** Inconclusive data.

#### Germ cell mutagenicity

**Summary** It is not expected to cause genetic damage in the light of current data.

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<b>Genotoxicity - in vitro</b>	Inconclusive data.
<b>Genotoxicity - in vivo</b>	Inconclusive data.
<b><u>Carcinogenicity</u></b>	
<b>Summary</b>	The base oils in the product content contain less than 3% DMSO according to IP 346.
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>Target organ for carcinogenicity</b>	No specific target organs known.
<b><u>Reproductive toxicity</u></b>	
<b>Summary</b>	There is no test data indicating that this product has a toxic effect on the reproductive system.
<b>Reproductive toxicity - fertility</b>	Inconclusive data.
<b>Reproductive toxicity - development</b>	No information is required.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>Summary</b>	There is no available data.
<b>STOT - single exposure</b>	Inconclusive data.
<b>Target organs</b>	No specific target organs known.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>Summary</b>	There is no available data.
<b>STOT - repeated exposure</b>	Inconclusive data.
<b>Target organs</b>	No specific target organs known.
<b><u>Aspiration hazard</u></b>	
<b>Summary</b>	Slight irritation of the respiratory tract may occur, if mists are inhaled.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b><u>Toxicokinetics</u></b>	
<b>General information</b>	No information is required.
<b>Inhalation</b>	Information given is based on data of the components and of similar products.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Liquid may irritate skin.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Acute and chronic health hazards</b>	There is not enough data.
<b>Route of exposure</b>	There is no available data.
<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	No specific tes data are available.
<b>Medical considerations</b>	No specific tes data are available.
<b><u>Toxicological information on ingredients.</u></b>	

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### Distillates (petroleum), hydrotreated heavy paraffinic

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral,

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal,

#### Carcinogenicity

#### Summary

The base oils in the product content contain less than 3% DMSO according to IP 346.

### Zin bis [O, O-bis (2-ethylhexyl)] bis (dithiophosphate)

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 3100 mg/kg, Oral, Rat NOAEL, Sub-akut 125 mg/kg, Oral, Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit

#### Skin corrosion/irritation

Skin corrosion/irritation Not corrosive to skin. Rabbit

#### Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

#### Skin sensitisation

Skin sensitisation Not sensitising.

#### Germ cell mutagenicity

Genotoxicity - in vitro memeliler-hayvan: Positive. Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Micronucleus Test, memeliler-hayvan: Negative.

#### Reproductive toxicity

Reproductive toxicity - fertility Fertility - Negative., ,

Reproductive toxicity - development Developmental toxicity: - : Negative., , Maternal toxicity: - : Negative., ,

### Exchangeable neutral oils

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

### 2,6-di-tert-butylphenol

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Oral, Rat NOAEL, Sub-kronik 270 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat

#### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >10000 mg/kg, Dermal, Rabbit
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Skin irritation.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - Negative., Oral, Rat
<b>Reproductive toxicity - development</b>	Developmental toxicity: - : Ambiguous uncertain, Oral, Rat Maternal toxicity: - : Positive., Oral, Rat
<b><u>Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 125 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 mg/kg, Dermal, Rabbit NOAEL, Sub-kronik 30 mg/kg, Dermal, Rat, Female NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC <sub>50</sub> >5,53 mg/l, 4 hour, Vapour Rat NOAEL, Sub-kronik 0,22 mg/l, 4 week, Dust/Mist Rat NOAEL, Sub-kronik 0,15 mg/l, 13 week, Dust/Mist Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	78 week, Negative., Dermal, Mouse
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - Negative., Oral, Rat

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**Reproductive toxicity - development** Teratogenicity: - : Negative., Dermal, Rat Maternal toxicity: - Negative.: , Oral, Rat  
Developmental toxicity: - Negative.: , Oral, Rat

### Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 200 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit NOAEL, Sub-akut 250 mg/kg, Dermal, Rat

#### Skin corrosion/irritation

**Skin corrosion/irritation** Slightly irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Slightly irritating.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Gene mutation, memeliler-hayvan: Negative.

#### Reproductive toxicity

**Reproductive toxicity - development** Teratogenicity: - : Negative., Oral, Rat

### Bis(nonilfenil)amin

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 100 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

#### Skin corrosion/irritation

**Skin corrosion/irritation** Moderately irritating.

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative.

#### Reproductive toxicity

**Reproductive toxicity - development** Teratogenicity: - : Negative., Oral, Rat

### Polyglycol ether

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 300-2000 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 500.0

#### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >2000 mg/kg, Dermal, Rabbit
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - Maternal toxicity: Positive., Inhalation, Rat Fertility, Two-generation study - Negative., Inhalation, Rat Two-generation study - Developmental toxicity: Negative., Inhalation, Rat
<b>Reproductive toxicity - development</b>	Maternal toxicity: - : Positive., Oral, Rat Developmental toxicity: - : Negative., Oral, Rat Fertility - : Negative., Oral, Rat Teratogenicity: - : Negative., Dermal, Rat

### Fuelsi diesel

<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Known or suspected carcinogen for humans.

### Calcium bis (dinonilnaftalinsulfonat)

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 95 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >20000 mg/kg, Dermal, Rat
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 >18 mg/l, 1 hour, Vapour Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Corrosive to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test, memeliler-hayvan: Negative.

### phenol, (tetrapropenyl) derivatives

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> 2200 mg/kg, Oral, Rat NOAEL, Sub-kronik 15 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> 15000 mg/kg, Dermal, Rabbit
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Gene mutation: Negative.

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### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility - Positive., Oral, Rat

**Reproductive toxicity - development** Maternal toxicity: - : Positive., Oral, Rat Developmental toxicity: - : Positive., Oral, Rat

### SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. May be harmful to aquatic organisms. Spills form film layer on water surface and prevent oxygen transfer

#### Ecological information on ingredients.

##### Distillates (petroleum), hydrotreated heavy paraffinic

**Ecotoxicity** May be harmful to aquatic organisms. Spills form film layer on water surface and prevent oxygen transfer

#### 12.1. Toxicity

**Toxicity** There is not enough data.

#### Acute aquatic toxicity

**Summary** Based on available information, the classification criteria are not met.

**Acute toxicity - fish** Based on available data the classification criteria are not met.

**Acute toxicity - aquatic invertebrates** Based on available data the classification criteria are not met.

**Acute toxicity - aquatic plants** Based on available data the classification criteria are not met.

**Acute toxicity - microorganisms** Based on available data the classification criteria are not met.

**Acute toxicity - terrestrial** No information required.

#### Chronic aquatic toxicity

**Summary** Based on available information, the classification criteria are not met.

**Chronic toxicity - fish early life stage** No information required.

**Short term toxicity - embryo and sac fry stages** No information required.

**Chronic toxicity - aquatic invertebrates** Based on available data the classification criteria are not met.

**Toxicity to soil** There is not enough data.

**Toxicity to terrestrial plants** There is not enough data.

#### Ecological information on ingredients.

##### Zin bis [O, O-bis (2-ethylhexyl)] bis (diithiophosphate)

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hour: 4,4 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EL50, 48 hour: 75 mg/l, Daphnia magna  
NOEC, 21 day: 0,4 mg/l, Daphnia magna

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**Acute toxicity - aquatic plants** EL50, 72 hour: 410 mg/l, Desmodemus subspicatus  
NOEL, chronic, 72 hour: 220 mg/l, Scenedesmus subspicatus

**Acute toxicity - microorganisms** EL50, 16 hour: 380 mg/l, Micro-organisms

### 2,6-di-tert-butylphenol

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hour: 1,4 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hour: 0,45 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hour: 1,2 mg/l, Algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 3 hour: >1000 mg/l, Micro-organisms

#### Chronic aquatic toxicity

**M factor (Chronic)** 1

**Chronic toxicity - aquatic invertebrates** NOEC, 21 day: 0,035 mg/l, Daphnia magna  
NOEC, 96 hour: 0,64 mg/l, Alg

### Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)  
NOEL, chronic, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EL50, 48 hour: >10000 mg/l, Daphnia magna

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEL, 21 day: 10 mg/l, Daphnia magna  
NOEL, 72 hour: >=100 mg/l, Pseudokirchneriella subcapitata

### Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hour: >1000 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EL50, 48 hour: >1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EL50, 96 hour: >500 mg/l, Desmodemus subspicatus

**Acute toxicity - microorganisms** EL50, 3 hour: >10000 mg/l, Micro-organisms

### Bis(nonilfenil)amin

#### Acute aquatic toxicity

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<b>Acute toxicity - fish</b>	LL <sub>50</sub> , 96 hour: >100 mg/l, Danio rerio (Zebrafish)
<b>Acute toxicity - aquatic invertebrates</b>	EL <sub>50</sub> , 48 hour: >100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EL <sub>50</sub> , 72 hour: 100 mg/l, Desmodemus subspicatus
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , 3 hour: >100 mg/l, Micro-organisms
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEL, 72 hour: >10 mg/l, Alg

### Polyglycol ether

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LL <sub>50</sub> , 96 hour: 104 mg/l, Danio rerio (Zebrafish)
<b>Acute toxicity - aquatic invertebrates</b>	EL <sub>50</sub> , 48 hour: >100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EL <sub>50</sub> , 96 hour: 326 mg/l, Selenastrum capricornutum EL <sub>10</sub> , chronic, 96 hour: 113 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EL <sub>50</sub> , 10 minute: >1000 mg/l, Micro-organisms

### Calcium bis (dinonilnaftalinsulfonat)

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hour: >0,28 mg/l, Cyprinus carpio (Common carp)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hour: >0,27 mg/l, Daphnia magna NOEL, chronic, 21 day: 4,6 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hour: >1,2 mg/l, Pseudokirchneriella subcapitata
<b>Acute toxicity - microorganisms</b>	EL <sub>50</sub> , 3 hour: 560 mg/l, Micro-organisms

### phenol, (tetrapropenyl) derivatives

<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.01 < L(E)C <sub>50</sub> ≤ 0.1
<b>M factor (Acute)</b>	10
<b>Acute toxicity - fish</b>	LL <sub>50</sub> , 96 hour: 40 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EL <sub>50</sub> , 48 hour: 0,037 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EL <sub>50</sub> , 72 hour: 0,36 mg/l, Desmodemus subspicatus NOEL, 72 hour: 0,07 mg/l, Desmodemus subspicatus
<b>Acute toxicity - microorganisms</b>	EL <sub>50</sub> , 3 hour: >1000 mg/l, Micro-organisms

## HYDRO OIL HD 46

### Chronic aquatic toxicity

**M factor (Chronic)** 10

**Chronic toxicity - aquatic invertebrates** NOEL, 21 day: 0,0037 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** Based on available information, the classification criteria are not met.

**Phototransformation** No specific test data are available.

**Stability (hydrolysis)** No specific test data are available.

**Biodegradation** No specific test data are available.

**Biological oxygen demand** No specific test data are available.

**Chemical oxygen demand** No specific test data are available.

### Ecological information on ingredients.

#### Distillates (petroleum), hydrotreated heavy paraffinic

**Biodegradation** Not expected to be readily biodegradable.

#### Zin bis [O, O-bis (2-ethylhexyl)] bis (diitiophosphate)

**Biodegradation** OECD 301 D - <5%: The other substances in the product are not expected to be readily biodegradable. 27 day

#### 2,6-di-tert-butylphenol

**Biodegradation** OECD TG 302 C - 12-24: % 28 day  
Not readily biodegradable.

#### Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

**Biodegradation** OECD 301 F - 31 %: 28 day

#### Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

**Biodegradation** OECD 301 B - 13,4 %: 28 day

#### Bis(nonilfenil)amin

**Biodegradation** OECD 301 B - 1: % 28 day

#### Polyglycol ether

**Biodegradation** OECD 301 F - 79: % 28 day

#### Calcium bis (dinonilnaftalinsülfonat)

**Biodegradation** OECD 301 B - 14: % 29 day

#### phenol, (tetrapropenyl) derivatives

**Biodegradation** OECD 301 B - 6-25 %: 28 day

## HYDRO OIL HD 46

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information required.

**Partition coefficient** No specific test data are available.

#### Ecological information on ingredients.

##### Distillates (petroleum), hydrotreated heavy paraffinic

**Bioaccumulative potential** Potentially bioaccumulating.

##### Zin bis [O, O-bis (2-ethylhexyl)] bis (dithiophosphate)

**Partition coefficient** log Pow: 3,59

##### 2,6-di-tert-butylphenol

**Bioaccumulative potential** log Pow: 4,5,

##### Bis(nonilfenil)amin

**Bioaccumulative potential** log Pow: 3,64-7,02, BCF: 1730,

##### Polyglycol ether

**Bioaccumulative potential** log Pow: 1,18-4,37,

##### phenol, (tetrapropenyl) derivatives

**Bioaccumulative potential** BCF: 289-1601,

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water and will spread on the water surface.

**Adsorption/desorption coefficient** No specific test data are available.

**Henry's law constant** No specific test data are available.

**Surface tension** No specific test data are available.

#### Ecological information on ingredients.

##### Distillates (petroleum), hydrotreated heavy paraffinic

**Mobility** Liquid under most environmental conditions. Floats on water. If spread into ground the groundwater may be polluted.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available.

#### Ecological information on ingredients.

##### Zin bis [O, O-bis (2-ethylhexyl)] bis (dithiophosphate)

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

## HYDRO OIL HD 46

### Fuelsi diesel

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

### Calcium bis (dinonilnaftalinsulfonat)

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

### phenol, (tetrapropenyl) derivatives

**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** This product contains components that have a harmful effect on the aquatic environment. Do not allow to enter into soil, rivers or sewers.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible.

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

**Waste class** The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

## SECTION 14: Transport information

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

**Road transport notes** Not classified.

**Rail transport notes** Not classified.

**Sea transport notes** Not classified.

**Air transport notes** Not classified.

### 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.

### Transport labels

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

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### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

### SECTION 15: Regulatory information

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

<b>National regulations</b>	T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization. T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous Substances and Mixtures
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010. Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.
<b>Guidance</b>	Safety Data Sheets for Substances and Preparations.
<b>Health and environmental listings</b>	Hazardous ingredients are listed.

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	DMSO: Dimethyl sulfoxide E.U. : European union KKE: Personal protective equipment T.C. : Republic of Turkey TWA: Workplace exposure limits UZEM: National Poison Information Center ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. LC <sub>50</sub> : Lethal Concentration to 50 % of a test population. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. vPvB: Very Persistent and Very Bioaccumulative. NOEC: No Observed Effect Concentration. EC <sub>50</sub> : 50% of maximal Effective Concentration.
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## HYDRO OIL HD 46

<b>Classification abbreviations and acronyms</b>	Asp. Tox. = Aspiration hazard Eye Dam. = Serious eye damage Aquatic Chronic = Hazardous to the aquatic environment (chronic) Skin Irrit. = Skin irritation Aquatic Acute = Hazardous to the aquatic environment (acute) Acute Tox. = Acute toxicity Eye Irrit. = Eye irritation Skin Corr. = Skin corrosion Repr. = Reproductive toxicity
<b>General information</b>	Only trained personnel should use this material. This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. Uses and Restrictions : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. Disclaimer : 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.
<b>Key literature references and sources for data</b>	This SDS is prepared based on the information received from raw material suppliers.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Not classified for health hazards.: Calculation method., Supplier information Not classified for environmental hazards.: Calculation method., Supplier information Not classified for physical hazards.: Calculation method., Supplier information
<b>Training advice</b>	Untrained personnel should not use.
<b>Revision comments</b>	Revised classification.
<b>Issued by</b>	Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
<b>Revision date</b>	12/12/2020
<b>Revision</b>	5
<b>Supersedes date</b>	17/06/2011
<b>SDS number</b>	10027
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer if swallowed. H360 May damage fertility or the unborn child if swallowed. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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