SAFETY DATA SHEET
HYDRO OIL HD 68

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name HYDRO OIL HD 68

Product number 22125

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.
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ Istanbul
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.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P401 Store in accordance with national regulations.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic **95-100%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0033

Classification
Not Classified

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiophosphate) **<1%**

CAS number: 4259-15-8

Classification
Eye Dam. 1 - H318
Aquatic Chronic 2 - H411

2,6-di-tert-butylphenol **<1%**

CAS number: 128-39-2 EC number: 204-884-0

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Skin Irrit. 2 - H315
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased **<1%**

CAS number: 122384-87-6 EC number: 272-234-3

Classification
Aquatic Chronic 4 - H413

Bis(nonilfenil)amin **<1%**

CAS number: 36878-20-3 EC number: 253-249-4

Classification
Aquatic Chronic 4 - H413

Polyglycol ether **<1%**

CAS number: —

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

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Fuelsi diesel	**<1%**
CAS number: 68334-30-5	EC number: 269-822-7
Classification	
Carc. 2 - H351	

Calcium bis (dinonilnaftalinsülfonat)	**<1%**
CAS number: 57855-77-3	EC number: 260-991-2
Classification	
Skin Irrit. 2 - H315 Eye Dam. 1 - H318	

phenol, (tetrapropenyl) derivatives	**<1%**
CAS number: 74499-35-7	EC number: 616-100-8
M factor (Acute) = 10	M factor (Chronic) = 10
Classification	
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 legistlation.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

General information Get medical advice/attention if you feel unwell.

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion 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.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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.

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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 (CO2). Oxides of nitrogen. Oxides of phosphorus. Metal oxide(s). Hydrogen sulphide (H2S).

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.
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.

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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/m3 (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 /m3 (ACGIH). Distillates (petroleum) hydrotreated heavy parafinic: EU OEL (Eu.) TWA: 5 mg/m3 (8 h.)

Biological limit values There is no available data.

DNEL There is no available data.

DMEL There is no available data.

PNEC There is no available data.

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiophosphate) (CAS: 4259-15-8)

DNEL Workers - Dermal; Long term systemic effects: 9,6 mg/kg, bw/day

PNEC Water; 0,004 mg/l

2,6-di-tert-butylphenol (CAS: 128-39-2)

DNEL Workers - Dermal; Long term systemic effects: 11,25 mg/kg, bw/day
Workers - Inhalation; Long term systemic effects: 70,61 mg/m³
Consumer - Oral; Long term systemic effects: 6,75 mg/kg, bw/day
Consumer - Inhalation; Long term systemic effects: 20,9 mg/m³

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PNEC	- Water; 0,00045 mg/l - marine water; 0,000045 mg/l

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik (CAS: 64742-54-7)

DNEL	Workers - Inhalation; Long term : 5,4 mg/m³ Consumer - Inhalation; Long term : 1,2 mg/m³
PNEC	Oral Value: 9,33 mg/kg

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.

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Initial boiling point and range	No information available.
Flash point	~ 236°C OC (Open cup).
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No specific test data are available.
Other flammability	No specific test data are available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	Inconclusive data.
Bulk density	~ 0,88 @15ºC g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	61,2-74,8 cSt @ 40°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No suitable data is available.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
Particle characteristic	

9.2. Other information

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

SECTION 10: Stability and reactivity

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10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

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 (CO2). Methacrylates. Oil vapors in case of overheating.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other health effects No relevant information available.

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

Acute toxicity - oral

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

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

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

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

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

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Summary Basen 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.

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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.
Genotoxicity - in vitro	Inconclusive data.
Genotoxicity - in vivo	Inconclusive data.

Carcinogenicity

Summary	The base oils in the product content contain less than 3% DMSO according to IP 346.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.

Reproductive toxicity

Summary	There is no test data indicating that this product has a toxic effect on the reproductive system.
Reproductive toxicity - fertility	Inconclusive data.
Reproductive toxicity - development	No information is required.

Specific target organ toxicity - single exposure

Summary	There is no available data.
STOT - single exposure	Inconclusive data.
Target organs	No specific target organs known.

Specific target organ toxicity - repeated exposure

Summary	There is no available data.
STOT - repeated exposure	Inconclusive data.
Target organs	No specific target organs known.

Aspiration hazard

Summary	Slight irritation of the respiratory tract may occur, if mists are inhaled.
Aspiration hazard	Based on available data, the classification criteria are not met.

Toxicokinetics	No information is required.
General information	Information given is based on data of the components and of similar products.

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	May cause discomfort if swallowed.
Skin contact	Liquid may irritate skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	There is not enough data.
Route of exposure	There is no available data.
Target organs	No specific target organs known.
Medical symptoms	No specific tes data are available.
Medical considerations	No specific tes data are available.

11.2 Information on other hazards

Information on other hazards

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >2000 mg/kg, Oral,
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >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 (dihtiophosphate)

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} 3100 mg/kg, Oral, Rat NOAEL, Sub-akut 125 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >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.

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

2,6-di-tert-butylphenol

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat NOAEL, Sub-kronik 270 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >10000 mg/kg, Dermal, Rabbit
Skin corrosion/irritation	
Skin corrosion/irritation	Skin irritation.
Serious eye damage/irritation	
Serious eye damage/irritation	Not irritating.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
Reproductive toxicity	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - : Ambiguous uncertain, Oral, Rat Maternal toxicity: - : Positive., Oral, Rat

Exchangeable neutral oils

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >2000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 125 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >5000 mg/kg, Dermal, Rabbit NOAEL, Sub-kronik 30 mg/kg, Dermal, Rat, Female NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LC50 >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

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Skin corrosion/irritation	
Skin corrosion/irritation	Not irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Not irritating.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	78 week, Negative., Dermal, Mouse
Reproductive toxicity	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
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_{50})	LD_{50} >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 200 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >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_{50})	LD_{50} >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 100 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Moderately irritating.

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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_{50})	LD_{50} 300-2000 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - Maternal toxicity: Positive., Inhalation, Rat Fertility, Two-generation study - Negative., Inhalation, Rat Two-generation study - Developmental toxicity: Negative., Inhalation, Rat
Reproductive toxicity - development	Maternal toxicity: - : Positive., Oral, Rat Developmental toxicity: - : Negative., Oral, Rat Fertility - : Negative., Oral, Rat Teratogenicity: - : Negative., Dermal, Rat

Fuelsi diesel

Carcinogenicity	
Carcinogenicity	Known or suspected carcinogen for humans.

Calcium bis (dinonilnaftalinsülfonat)

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 95 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >20000 mg/kg, Dermal, Rat
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LC50 >18 mg/l, 1 hour, Vapour Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Corrosive to skin.

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye irritation.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test, memeliler-hayvan: Negative.

phenol, (tetrapropenyl) derivatives

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

HYDRO OIL HD 68

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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 (dihtiophosphate)

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 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
Acute toxicity - aquatic plants	EL50, 72 hour: 410 mg/l, Desmodesmus 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)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hour: 1,4 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 0,45 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hour: 1,2 mg/l, Algae
Acute toxicity - microorganisms	EC_{50}, 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	

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Acute toxicity - fish	LL_{50}, 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_{50}, 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, Desmodesmus subspicatus
Acute toxicity - microorganisms	EL50, 3 hour: >10000 mg/l, Micro-organisms

Bis(nonilfenil)amin

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hour: 100 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	IC_{50}, 3 hour: >100 mg/l, Micro-organisms
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEL, 72 hour: >10 mg/l, Alg

Polyglycol ether

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 96 hour: 104 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 96 hour: 326 mg/l, Selenastrum capricornutum EL10, chronic, 96 hour: 113 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EL50, 10 minute: >1000 mg/l, Micro-organisms

Calcium bis (dinonilnaftalinsülfonat)

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hour: >0,28 mg/l, Cyprinus carpio (Common carp)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: >0,27 mg/l, Daphnia magna NOEL, chronic, 21 day: 4,6 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hour: >1,2 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EL50, 3 hour: 560 mg/l, Micro-organisms

phenol, (tetrapropenyl) derivatives

Acute aquatic toxicity	
LE(C)$_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LL_{50}, 96 hour: 40 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: 0,037 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hour: 0,36 mg/l, Desmodesmus subspicatus NOEL, 72 hour: 0,07 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EL50, 3 hour: >1000 mg/l, Micro-organisms
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 (dihtiophosphate)

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

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

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 (dihtiophosphate)

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

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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.

12.6 Endocrine disrupting properties

Endocrine disrupting properties

Ecological information on ingredients.

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiophosphate)

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

Fuelsi diesel

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

Calcium bis (dinonilnaftalinsülfonat)

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.

HYDRO OIL HD 68

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

UN number or ID 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

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

Maritime transport in bulk according to IMO instruments

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

SECTION 15: Regulatory information

HYDRO OIL HD 68

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

National regulations

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

EU legislation

Commission Regulation (EU) No 453/2010 of 20 May 2010.
Dangerous Preparations Directive 1999/45/EC.
Dangerous Substances Directive 67/548/EEC.

Guidance

Safety Data Sheets for Substances and Preparations.

Health and environmental listings

Hazardous ingredients are listed.

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15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

DMSO: Dimethyl sulfoxide
E.U. : European union
KKE: Personal protective aquipment
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_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: 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_{50}: 50% of maximal Effective Concentration.

Classification abbreviations and acronyms

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

HYDRO OIL HD 68

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

General information	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.
Key literature references and sources for data	This SDS is prepared based on the information received from raw material suppliers.
Classification procedures according to Regulation (EC) 1272/2008	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
Training advice	Untrained personnel should not use.
Revision comments	Revised classification.
Issued by	Ece Yigit Chemical Assessment Specialist (Certificate No: KDU01.30.08 18.02.2028)
Revision date	15/02/2024
Revision	7
Supersedes date	17/06/2011
SDS number	10012
SDS status	Approved.
Hazard statements in full	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.