



## SAFETY DATA SHEET MAXIMUS HD-E 5W-30

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

Product name MAXIMUS HD-E 5W-30

Product number 11362

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

Identified uses Engine oil.

Uses advised against 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. This product is designed only to suit automotive applications and no provision is made for the requirements of aviation applications.

#### 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/ 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

### 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 Aquatic Chronic 3 - H412

Environmental The product is mildly toxic to aquatic organisms.

#### 2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P401 Store in accordance with national regulations.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P273 Avoid release to the environment.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Distillates (petroleum), hydrotreated heavy paraffinic baseoil</b> CAS number: 64742-54-7                      EC number: 265-157-1                      REACH registration number: 01-2119484627-25-0065	<b>40-60%</b>
<b>Classification</b> Asp. Tox. 1 - H304	
<b>1-decen homopolimer hidrojenlenmiş</b> CAS number: 68037-01-4	<b>25-40%</b>
<b>Classification</b> Asp. Tox. 1 - H304	
<b>Mineral oil (mixture)</b> CAS number: — The mineral oil contained in this material may be described by one or more of the following CAS No's.: 64742-54-7, 64742-65-0, 6474255-8, and 64742-56-9.	<b>10-20%</b>
<b>Classification</b> Asp. Tox. 1 - H304	
<b>Distillates (petroleum), hydrogenated heavy paraffinic</b> CAS number: —                                      EC number: 265-157-1	<b>10-20%</b>
<b>Classification</b> Asp. Tox. 1 - H304	
<b>bis(nonylphenyl)amine</b> CAS number: 36878-20-3                      EC number: 253-249-4	<b>1-5%</b>
<b>Classification</b> Aquatic Chronic 4 - H413	
<b>Butanedioic acid, 2,3-dihydroxy-, mixed C12-16-alkyl and C13-rich C11-14-isoalkyl diesters, (2R,3R)-rel-</b> CAS number: —                                      EC number: 482-100-8	<b>&lt;1%</b>
<b>Classification</b> Eye Dam. 1 - H318	

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<b>Zinc O,O',O',O'-tetrakis(1,3dimethylbutyl)bis(fosforodithioat)</b>	<b>&lt;1%</b>
CAS number: —	EC number: 218-679-9
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Aquatic Chronic 2 - H411	
<b>Mineral oil</b>	<b>&lt;1%</b>
CAS number: —	
The mineral oil contained in this material may be identified by one or more of the following CAS Numbers: 64742-54-7, 64742-65-0, 64742-55-8 and 64742-56-9.	
<b>Classification</b>	
Asp. Tox. 1 - H304	
<b>Phenol, dodecyl-, branched</b>	<b>&lt;1%</b>
CAS number: —	EC number: 310-154-3
M factor (Acute) = 10	M factor (Chronic) = 10
<b>Classification</b>	
Skin Corr. 1C - H314	
Eye Dam. 1 - H318	
Repr. 1B - H360	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>2,6-di-tert-butyl-p-cresol</b>	<b>&lt;1%</b>
CAS number: —	EC number: 204-881-4
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Skin Irrit. 2 - H315	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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

<b>Composition comments</b>	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%
<b>Ingredient notes</b>	If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, the registration date has not yet come due or this information is proprietary.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**General information** Get medical attention if any discomfort continues.

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<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.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	See Section 11 for additional information on health hazards.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	No specific symptoms known.

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

<b>Notes for the doctor</b>	Treat symptomatically.
<b>Specific treatments</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information. Water may cause splattering. Container may rupture on heating.
<b>Hazardous combustion products</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). A complex mixture of airborne solids, liquids and gases can be released.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>For non-emergency personnel</b>	Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

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**For emergency responders** Wear protective clothing as shown in section 8 of this safety data sheet. 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** Do not 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. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 1 for emergency contact information. For waste disposal, see Section 13. See Section 7 for more information on safe handling. 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. Provide adequate ventilation.

**Advice on general occupational hygiene** Good personal hygiene procedures should be implemented. Avoid breathing vapors / mist. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store away from incompatible materials (see Section 10). Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in the original container. Protect from freezing and direct sunlight.

### 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

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

There is no available data.

**Ingredient comments** WEL = Workplace Exposure Limits

**Biological limit values** No information available.

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<b>DNEL</b>	No information available.
<b>DMEL</b>	No information available.
<b>PNEC</b>	No information available.

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

<b>Ingredient comments</b>	There is no available data.
<b>Biological limit values</b>	There is no available data.
<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 2,7 (8h) mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 5,4 (8h) mg/m <sup>3</sup> Consumer - Inhalation; Long term local effects: 1,2 (24h) mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 0,74 (24h) mg/kg/day Workers - Dermal; Long term systemic effects: 1,0 (8h) mg/kg
<b>DMEL</b>	No information available.
<b>PNEC</b>	No information available.

### 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

The effectiveness of personal protective equipment, together with other elements, depends on the degree of ventilation. Depending on the particular situation in question, Get professional support.

#### 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

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. 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.

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### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Store in a demarcated banded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Keep container tightly sealed when not in use.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid.
Colour	Brownish.
Odour	Odorless or slightly petroleum oil
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	No specific test data are available.
Initial boiling point and range	No specific test data are available.
Flash point	~ 234°C OC (Open cup).
Evaporation rate	No specific test data are available.
Evaporation factor	No specific test data are available.
Flammability (solid, gas)	No specific test data are available.
Upper/lower flammability or explosive limits	No specific test data are available.
Other flammability	No specific test data are available.
Vapour pressure	No specific test data are available.
Vapour density	No specific test data are available.
Relative density	No specific test data are available.
Bulk density	~ 0,85 @ 15 °C g/ml
Solubility(ies)	Hydrocarbons.
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	No specific test data are available.
Explosive properties	No specific test data are available.
Explosive under the influence of a flame	No specific test data are available.
Oxidising properties	Not known.
Comments	No specific test data are available.

### 9.2. Other information

Other information	No information required.
Refractive index	No specific test data are available.

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<b>Particle size</b>	No specific test data are available.
<b>Molecular weight</b>	No specific test data are available.
<b>Volatility</b>	No specific test data are available.
<b>Saturation concentration</b>	No specific test data are available.
<b>Critical temperature</b>	No specific test data are available.
<b>Volatile organic compound</b>	No specific test data are available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** No test data specifically related to reactivity available for this product or its ingredients.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

**Conditions to avoid** Keep away from heat, sparks and open flame. Avoid contact with strong oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids. Inorganic halides. Strong alkalis.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** In the event of incomplete combustion, smoke, carbon dioxide and carbon monoxide are formed. Oxides of nitrogen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** Based on available data the classification criteria are not met.

**Other health effects** Based on available data the classification criteria are not met.

#### 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 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 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 available data the classification criteria are not met.

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

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<b>Animal data</b>	Based on available data the classification criteria are not met.
<b>Human skin model test</b>	Based on available data the classification criteria are not met.
<b>Extreme pH</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<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>IARC carcinogenicity</b>	Not listed.
<b>NTP carcinogenicity</b>	Not listed.
<b><u>Reproductive toxicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b>Target organs</b>	No specific target organs known.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b>Target organs</b>	No specific target organs known.
<b><u>Aspiration hazard</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.

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<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>Toxicokinetics</b>	No other information known.
<b>General information</b>	No other information known.
<b>Inhalation</b>	No other information known.
<b>Ingestion</b>	No other information known.
<b>Skin contact</b>	No other information known.
<b>Eye contact</b>	No other information known.
<b>Acute and chronic health hazards</b>	No other information known.
<b>Route of exposure</b>	No other information known.
<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	No other information known.
<b>Medical considerations</b>	No other information known.

### Toxicological information on ingredients.

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

<b>Toxicological effects</b>	Information given is based on data of the components and of similar products.
<b>Other health effects</b>	No information required.
<b><u>Acute toxicity - oral</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 (OECD 401)/API 1982a mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 (OECD 402)/API 1982a mg/kg, Dermal, Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC <sub>50</sub> , 4h 5,53 (OECD 403)/Exxon Biomedical Sciences, Inc.(1988a) mg/l, Inhalation, Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b>Human skin model test</b>	Based on available data the classification criteria are not met.
<b>Extreme pH</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.

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<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<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>IARC carcinogenicity</b>	Not listed.
<b>NTP carcinogenicity</b>	Not listed.
<b><u>Reproductive toxicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b>Target organs</b>	No specific target organs known.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<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>	May be fatal if swallowed and enters airways.

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<b>Toxicokinetics</b>	No information required.
<b>General information</b>	No information required.
<b>Inhalation</b>	No information required.
<b>Ingestion</b>	No information required.
<b>Skin contact</b>	No information required.
<b>Eye contact</b>	No information required.
<b>Acute and chronic health hazards</b>	No information required.
<b>Route of exposure</b>	No information required.
<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	No information required.
<b>Medical considerations</b>	No information required.

**1-decen homopolimer hidrojenlenmiş****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat

**Acute toxicity - dermal**

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

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** LC50 >5,2 (4h) mg/l, Inhalation, Rat

**Mineral oil (mixture)****Skin sensitisation**

**Skin sensitisation** Classification: Not a skin sensitizer. (Read across) (Supplier information)

**Specific target organ toxicity - single exposure**

**STOT - single exposure** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. (Supplier information)

**Aspiration hazard**

**Aspiration hazard** Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. (Supplier information)

**Distillates (petroleum), hydrogenated heavy parafinic****Carcinogenicity**

**Carcinogenicity** This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

**Aspiration hazard**

**Aspiration hazard** Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. (Supplier information)

**MAXIMUS HD-E 5W-30****bis(nonylphenyl)amine****Germ cell mutagenicity**

**Genotoxicity - in vitro** This material has not exhibited mutagenic or genotoxic potential in laboratory tests. (Supplier information)

**Zinc O,O',O',O'-tetrakis(1,3dimethylbuthyl)bis(fosforodithioat)****Skin sensitisation**

**Skin sensitisation** Classification: Not a skin sensitizer.

**Mineral oil****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat

**Acute toxicity - dermal**

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

**Phenol, dodecyl-, branched****Skin sensitisation**

**Skin sensitisation** Classification: Not a skin sensitizer.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** This material has not exhibited mutagenic or genotoxic potential in laboratory tests. (Supplier data)

**Reproductive toxicity**

**Summary** May damage fertility. (Supplier information)

**Specific target organ toxicity - single exposure**

**STOT - single exposure** May cause irritation to the mucous membranes and upper respiratory tract.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** This product contains para-dodecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced effects on a number of organs including adrenal, thyroid, liver, ovary, testes, bone marrow and blood cell formation.

**2,6-di-tert-butyl-p-cresol****Reproductive toxicity**

**Reproductive toxicity - development** Gestation to pregnant mice 6-13. days after di-tert-butyl-p-cresol up to 800 mg / kg / day, no teratogenic effect was observed. (Supplier information)

**SECTION 12: Ecological information**

**Ecotoxicity** May cause long lasting harmful effects to aquatic life.

**Ecological information on ingredients.****Distillates (petroleum), hydrotreated heavy paraffinic baseoil**

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

**12.1. Toxicity**

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<b>Toxicity</b>	Harmful to aquatic life with long lasting effects.
<b><u>Acute aquatic toxicity</u></b>	
<b>Summary</b>	No other information known.
<b>Acute toxicity - fish</b>	No other information known.
<b>Acute toxicity - aquatic invertebrates</b>	No other information known.
<b>Acute toxicity - aquatic plants</b>	No other information known.
<b>Acute toxicity - microorganisms</b>	No other information known.
<b>Acute toxicity - terrestrial</b>	No other information known.
<b><u>Chronic aquatic toxicity</u></b>	
<b>Summary</b>	May cause long lasting harmful effects to aquatic life.
<b>Chronic toxicity - fish early life stage</b>	No specific test data are available.
<b>Short term toxicity - embryo and sac fry stages</b>	No specific test data are available.
<b>Chronic toxicity - aquatic invertebrates</b>	No specific test data are available.
<b>Toxicity to soil</b>	No specific test data are available.
<b>Toxicity to terrestrial plants</b>	No specific test data are available.

**Ecological information on ingredients.****Distillates (petroleum), hydrotreated heavy paraffinic baseoil**

<b>Toxicity</b>	Based on available data the classification criteria are not met.
<b><u>Acute aquatic toxicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Acute toxicity - fish</b>	LL <sub>50</sub> , : >100 mg/l, Fish LL <sub>50</sub> , 96 (OECD 203) hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	LL <sub>50</sub> , 24 (OECD 202) hours: >10000 mg/l, Gammarus pulex EL50, 24 (OECD 202) hours: >10000 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	No information required.
<b>Acute toxicity - microorganisms</b>	LL <sub>50</sub> , : >100 mg/l, Micro-organisms
<b>Acute toxicity - terrestrial</b>	No information required.
<b><u>Chronic aquatic toxicity</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b>Chronic toxicity - fish early life stage</b>	No information required.

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<b>Short term toxicity - embryo and sac fry stages</b>	No information required.
<b>Chronic toxicity - aquatic invertebrates</b>	No information required.
<b>Toxicity to soil</b>	No information required.
<b>Toxicity to terrestrial plants</b>	No information required.

### 1-decen homopolimer hidrojenlenmiş

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hour: >1000 mg/l, Salmo gairdneri (Rainbow trout) LC <sub>50</sub> , 96 hour: >750 mg/l, Fathead Minnow
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hour: 190 mg/l, Daphnia Magna
<b>Acute toxicity - aquatic plants</b>	NOELR, 72 hour: 1000 mg/l, Selenastrum capricornutum, Static test Method: OECD Test Guideline 201

### Mineral oil (mixture)

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 4 day: >100 mg/l, Fathead Minnow
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: >10000 mg/l, Daphnia magna EC <sub>50</sub> , 21 day: >10 mg/l, Daphnia magna NOEC, 21 day: >10 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 3 day: >100 mg/l, Scenedesmus quadricauda

### Distillates (petroleum), hydrogenated heavy parafinic

#### Acute aquatic toxicity

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: >10000 mg/l, Daphnia magna EC <sub>50</sub> , 21 day: >10 mg/l, Daphnia magna NOEC, 21 day: 10 mg/l, Daphnia magna
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### bis(nonylphenyl)amine

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 4 day: >100 mg/l, Danio rerio (Zebrafish)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: >100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 3 day: 600 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 0,1 day: >1000 mg/l, Sludge

### Zinc O,O,O',O'-tetrakis(1,3dimethylbuthyl)bis(fosforodithioat)

#### Acute aquatic toxicity

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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 4 day: 4,5 mg/l, Oncorhynchus mykiss (Rainbow trout) NOEC, 4 day: 1,8 mg/l, Oncorhynchus mykiss (Rainbow trout) LC <sub>50</sub> , 4 day: 46 mg/l, Sheepshead Minnow
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: 23 mg/l, Daphnia magna NOEC, 2 day: 10 mg/l, Daphnia magna NOEC, 21 day: 0,4 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 3 day: 21 mg/l, Selenastrum capricornutum

### Mineral oil

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 4 day: >100 mg/l, Fathead Minnow
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: >10000 mg/l, Daphnia magna EC <sub>50</sub> , 21 day: >10 mg/l, Daphnia magna NOEC, 21 day: >10 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 3 day: >100 mg/l, Scenedesmus quadricauda

### Phenol, dodecyl-, branched

#### Acute aquatic toxicity

<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>	LC <sub>50</sub> , 4 day: 40 mg/l, Fathead Minnow
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: 0,037 mg/l, Daphnia magna EC <sub>50</sub> , 4 day: >0,58 mg/l, Shrimp (Mysidopsis Bahia) EC <sub>50</sub> , 21 day: 0,0079 mg/l, Daphnia magna NOEC, 21 day: 0,0037 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hour: 0,36 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 0,1 day: >1000 mg/l, Sludge

#### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	10
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### 2,6-di-tert-butyl-p-cresol

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 2 day: 0,48 mg/l, Daphnia magna

#### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	1
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## 12.2. Persistence and degradability

**MAXIMUS HD-E 5W-30**

<b>Persistence and degradability</b>	No specific test data are available.
<b>Phototransformation</b>	No specific test data are available.
<b>Stability (hydrolysis)</b>	No specific test data are available.
<b>Biodegradation</b>	No specific test data are available.
<b>Biological oxygen demand</b>	No specific test data are available.
<b>Chemical oxygen demand</b>	No specific test data are available.

**Ecological information on ingredients.****Distillates (petroleum), hydrotreated heavy paraffinic baseoil**

<b>Persistence and degradability</b>	OECD 301B:2-4 %,28 d ;OECD 301F:31 %,28 d
<b>Phototransformation</b>	Inconclusive data.
<b>Stability (hydrolysis)</b>	Inconclusive data.
<b>Biodegradation</b>	Inconclusive data.
<b>Biological oxygen demand</b>	Inconclusive data.
<b>Chemical oxygen demand</b>	Inconclusive data.

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<b>Biodegradation</b>	Expected to be inherently biodegradable. (Supplier information)
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**Mineral oil (mixture)**

<b>Biodegradation</b>	Carbon dioxide formation - 31: 28 day, OECD TG 301B
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**Distillates (petroleum), hydrogenated heavy paraffinic**

<b>Biodegradation</b>	Oxygen discharge - 31 %: 28 day, OECD TG 301 F
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**bis(nonylphenyl)amine**

<b>Biodegradation</b>	Carbon dioxide formation - 0 %: 28 day, OECD TG 301B
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**Zinc O,O',O',O'-tetrakis(1,3dimethylbutyl)bis(fosforodithioat)**

<b>Biodegradation</b>	Carbon dioxide formation - 1,5 %: 28 day, OECD TG 301B
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**Mineral oil**

<b>Biodegradation</b>	Carbon dioxide formation - 31 %: 28 day, OECD TG 301B
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**Phenol, dodecyl-, branched**

<b>Biodegradation</b>	Miscellaneous - 10 %: 56 day Carbon dioxide formation - 25 %: 28 day, OECD TG 301B
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**2,6-di-tert-butyl-p-cresol**

## MAXIMUS HD-E 5W-30

**Biodegradation** Miscellaneous - 30 %: 14 day, OECD TG 302 C  
Oxygen discharge - 4,5 %: 28 day, OECD TG 301 C

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No specific test data are available.

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

### Ecological information on ingredients.

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

**Bioaccumulative potential** Inconclusive data.

**Partition coefficient** Inconclusive data.

#### 1-decen homopolimer hidrojenlenmiş

**Bioaccumulative potential** This material is not expected to bioaccumulate. (Supplier information)

#### bis(nonylphenyl)amine

**Bioaccumulative potential** BCF: 1584,89, Measured

#### Zinc O,O',O',O'-tetrakis(1,3dimethylbuthyl)bis(fosforodithioat)

**Partition coefficient** log Kow: °C 2,21 20

#### Phenol, dodecyl-, branched

**Bioaccumulative potential** BCF: 794,33, Measured

**Partition coefficient** log Kow: 7,14

#### 2,6-di-tert-butyl-p-cresol

**Partition coefficient** log Kow: 5,03

### 12.4. Mobility in soil

**Mobility** The product is immiscible with 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 baseoil

**Mobility** No data available.

**Adsorption/desorption coefficient** Inconclusive data.

**Henry's law constant** Inconclusive data.

**Surface tension** Inconclusive data.

## MAXIMUS HD-E 5W-30

### 12.5. Results of PBT and vPvB assessment

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

#### Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

**Results of PBT and vPvB assessment** Not relevant.

### 12.6. Other adverse effects

**Other adverse effects** No other information known.

#### Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

**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. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

**Disposal methods** Collect and place in suitable waste disposal containers and seal securely. 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).

### 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

**Environmentally hazardous substance/marine pollutant**  
No.

## MAXIMUS HD-E 5W-30

### 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. According to Regulation (EC) No 1907/2006, Annex II, as amended.
<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>	<p>E.U. : European union</p> <p>DMSO: Dimethyl sulfoxide</p> <p>KKE: Personal protective equipment</p> <p>STEL: Short term exposure limit</p> <p>T.C. : Republic of Turkey</p> <p>TWA: Workplace exposure limits</p> <p>UZEM: National Poison Information Center</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p>
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**MAXIMUS HD-E 5W-30**

<b>Classification abbreviations and acronyms</b>	Asp. Tox. = Aspiration hazard Skin Corr. = Skin corrosion Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Repr. = Reproductive toxicity
<b>Key literature references and sources for data</b>	This SDS is prepared based on the information received from suppliers.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Aquatic Chronic 4 - H413: On basis of test data., Calculation method.
<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>	24/10/2019
<b>Revision</b>	4
<b>Supersedes date</b>	13/06/2011
<b>SDS number</b>	10389
<b>Hazard statements in full</b>	H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. 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. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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