SAFETY DATA SHEET
MAXIMUS HD 15W-40

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 MAXIMUS HD 15W-40

Product number 11363

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

Identified uses Engine oil.

Uses advised against Use only for intended 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/ 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 Eye Irrit. 2 - H319

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms

Signal word Warning

Hazard statements EUH208 Contains Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari. May produce an allergic reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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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.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

No other information known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum) hydrotreated heavy parafinic **60-80%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0014

Classification
Not Classified

Distillates (petroleum) hydrotreated heavy parafinic **10-20%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0064

Classification
Not Classified

Mineral oil (mixture) **5-10%**

CAS number: —

The mineral oil in its content can be defined by one or more of the following: EC No. 265-157-1, Registration No. 01-2119484627-25, Distillates (petroleum), hydro-treated heavy paraffinic; EC No. 265-169-7, Registration No. 01-2119471299-27, Distillates (petroleum), solvent-waxed heavy paraffinic; EC No. 265-158-7, Registration No. 01-2119487077-29, Distillates (petroleum), hydro-treated light paraffinic; EC No. 265-159-2, Registration No. 01-2119480132-48, Distilatlar (petrol), solvent-waxed light paraffinic.

Classification
Asp. Tox. 1 - H304

Bis(nonylphenyl)amine **1-5%**

CAS number: —

Classification
Aquatic Chronic 4 - H413

MAXIMUS HD 15W-40

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

Mineral Oil **1-5%**

CAS number: 64742-55-8

Classification
Not Classified

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts **1-5%**

CAS number: — EC number: 283-392-8

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 2 - H411

Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari **<1%**

CAS number: — EC number: 947-519-7

Classification
Skin Sens. 1B - H317

Phenol, dodecyl-, branched **<1%**

CAS number: — EC number: 310-154-3

M factor (Acute) = 10 M factor (Chronic) = 10

Classification
Skin Corr. 1C - H314
Eye Dam. 1 - H318
Repr. 1B - H360
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Diphenylamine **<1%**

CAS number: — EC number: 204-539-4

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

Classification
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Eye Irrit. 2 - H319
STOT RE 2 - H373
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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

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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.

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 attention if any discomfort continues.
Inhalation	Get medical attention if any discomfort continues. If in doubt, get medical attention promptly.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Get medical attention if any discomfort continues.
Eye contact	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.
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	See Section 11 for additional information on health hazards.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	No specific treatment. Treat symptomatically.
Specific treatments	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.
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. Smoke and irritating vapours as products of incomplete combustion. Unidentified organic or inorganic compounds. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Diphenylamine Alkenes.

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.

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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.

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. Proper ventilation should be provided.

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 See Section 1 for emergency contact information. For waste disposal, see Section 13. 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. Provide adequate ventilation.

Advice on general occupational hygiene 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

Distillates (petroleum) hydrotreated heavy parafinic

TWA : 5 mg/m3 (Belgium)

Distillates (petroleum) hydrotreated heavy parafinic

MAXIMUS HD 15W-40

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

TWA : 5 mg/m3 (Belgium)

Mineral Oil

Mineral oil - Inhalable fraction:TWA:5 mg/m3,US. ACGIH Threshold Limit Values (03 2014)

Ingredient comments	WEL = Workplace Exposure Limits
Biological limit values	No other information known.
DNEL	No other information known.
DMEL	No other information known.
PNEC	No other information known.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours.
Personal protection	Keep away from foodstuffs, beverages and foods. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Store protective clothing separately. 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	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.
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	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 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	Brownish.
Odour	Characteristic.

MAXIMUS HD 15W-40

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

Odour threshold	No other information known.
pH	Scientifically unjustified.
Melting point	No other information known.
Initial boiling point and range	No other information known.
Flash point	> 220°C OC (Open cup).
Evaporation rate	No other information known.
Evaporation factor	No other information known.
Flammability (solid, gas)	No other information known.
Upper/lower flammability or explosive limits	No other information known.
Other flammability	No other information known.
Vapour pressure	No other information known.
Vapour density	No other information known.
Relative density	~ 0.87 g/ml @ 15°C
Bulk density	Data lacking.
Solubility(ies)	Insoluble in water.
Partition coefficient	No other information known.
Auto-ignition temperature	No other information known.
Decomposition Temperature	No other information known.
Viscosity	12,5-16,3 cSt @ 100°C
Explosive properties	No specific test data are available.
Explosive under the influence of a flame	No other information known.
Oxidising properties	No other information known.
Comments	No other information known.
Particle characteristic	Not applicable.

9.2. Other information

Other information	No information required.
Refractive index	No specific test data are available.
Particle size	No specific test data are available.
Molecular weight	No specific test data are available.
Volatility	No specific test data are available.
Saturation concentration	No specific test data are available.
Critical temperature	No specific test data are available.

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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.

Volatile organic compound	No specific test data are available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	This product is stable under normal conditions.

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	Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid	Strong alkalis. Strong acids. Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen. Diphenylamine Alkenes. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide,irritating vapors and other products of incomplete combustion.

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	Based on available data the classification criteria are not met.
Toxicological 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_{50})	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_{50})	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_{50})	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.
Animal data	Based on available data the classification criteria are not met.

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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.

Human skin model test	Based on available data the classification criteria are not met.
Extreme pH	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Summary	Causes serious eye irritation.
Serious eye damage/irritation	Supplier's information.

Respiratory sensitisation

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

Skin sensitisation

Summary	Based on available data the classification criteria are not met.
Skin sensitisation	May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Summary	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.

Carcinogenicity

Summary	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.
IARC carcinogenicity	Based on available data the classification criteria are not met.
NTP carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary	Based on available data the classification criteria are not met.
STOT - single exposure	Based on available data the classification criteria are not met.
Target organs	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Summary	Based on available data the classification criteria are not met.
STOT - repeated exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.

Aspiration hazard

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

MAXIMUS HD 15W-40

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

Aspiration hazard	Based on available data the classification criteria are not met.
Toxicokinetics	No other information known.
General information	No other information known.
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	May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	May cause temporary eye irritation.
Acute and chronic health hazards	No other information known.
Route of exposure	No other information known.
Target organs	No other information known.
Medical symptoms	No other information known.
Medical considerations	No other information known.

11.2 Information on other hazards

Information on other hazards	This product does not have endocrine disrupting properties.

Toxicological information on ingredients.

Distillates (petroleum) hydrotreated heavy parafinic

Carcinogenicity

Summary	94/69 / EC (21st ATP - DSD), Nota L, reference IP 346/92: According to the “DMSO Extraction Method” Directive, the base oils used in this preparation are non-carcinogenic.

Distillates (petroleum) hydrotreated heavy parafinic

Carcinogenicity

Summary	94/69 / EC (21st ATP - DSD), Nota L, reference IP 346/92: According to the “DMSO Extraction Method” Directive, the base oils used in this preparation are non-carcinogenic.

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)

Bis(nonylphenyl)amine

MAXIMUS HD 15W-40

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

Germ cell mutagenicity

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

Mineral Oil

Carcinogenicity

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

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)

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

Skin sensitisation

Skin sensitisation Classification: Not a skin sensitizer.

Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari

Skin sensitisation

Skin sensitisation Skin Sens. 1B - H317 Supplier's information.

Germ cell mutagenicity

Genotoxicity - in vitro Negative. Supplier's information.

Genotoxicity - in vivo Negative. Supplier's information.

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

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

MAXIMUS HD 15W-40

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

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.

Diphenylamine

Acute toxicity - oral	
ATE oral (mg/kg)	100.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	300.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	3.0
Skin sensitisation	
Skin sensitisation	Classification: Not a skin sensitizer.
Germ cell mutagenicity	
Summary	The Ames Salmonella test for mutagenicity was negative for this product. The mouse micronucleus and the rat hepatocyte UDS tests for genotoxicity were negative for diphenylamine.
Reproductive toxicity	
Summary	There are conflicting reports in the literature concerning the teratogenicity of diphenylamine. However, because the predominant route of exposure was oral (via gavage or diet) and relatively high dose levels were administered in the studies where positive effects were observed, it would not seem to present a workplace hazard.
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)
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	A two year feeding study in rats and dogs of diphenylamine demonstrated liver, kidney and blood cell damage. The effect was observed at levels as low as 100 ppm. A five month feeding study in rats of 1% diphenylamine produced renal cystic disease. A dosedependent increase in Heinz body formation was evident during a 12 week study of 5 to 1000 ppm. The no effect level was at 10 ppm. Dermal: Target Organ(s): Liver, Kidney Inhalation: Target Organ(s): Kidney, Liver Oral: Target Organ(s): Liver, Kidney

SECTION 12: Ecological information

Ecotoxicity	Harmful to aquatic life.
12.1. Toxicity	
Toxicity	Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	
Summary	No other information known.

MAXIMUS HD 15W-40

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	No specific test data are available.
Acute toxicity - aquatic invertebrates	No specific test data are available.
Acute toxicity - aquatic plants	No specific test data are available.
Acute toxicity - microorganisms	No specific test data are available.
Acute toxicity - terrestrial	No specific test data are available.
Chronic aquatic toxicity	
Summary	No specific test data are available.
Chronic toxicity - fish early life stage	No specific test data are available.
Short term toxicity - embryo and sac fry stages	No specific test data are available.
Chronic toxicity - aquatic invertebrates	No specific test data are available.
Toxicity to soil	No specific test data are available.
Toxicity to terrestrial plants	No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum) hydrotreated heavy parafinic

Toxicity	This substance is not expected to be harmful to aquatic organisms.The product has not been tested.The expression is derived from the properties of each component.

Distillates (petroleum) hydrotreated heavy parafinic

Toxicity	This substance is not expected to be harmful to aquatic organisms.The product has not been tested.The expression is derived from the properties of each component.

Mineral oil (mixture)

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 4 day: >100 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >10000 mg/l, Daphnia magna EC_{50}, 21 day: >10 mg/l, Daphnia magna NOEC, 21 day: >10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: >100 mg/l, Scenedesmus quadricauda

Bis(nonylphenyl)amine

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 4 day: >100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >100 mg/l, Daphnia magna

MAXIMUS HD 15W-40

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 - aquatic plants	EC_{50}, 3 day: 600 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >1000 mg/l, Sludge

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: 4,5 mg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 4 day: 46 mg/l, Sheepshead Minnow NOEC, 4 day: 1,8 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 23 mg/l, Daphnia magna NOEC, 2 day: 10 mg/l, Daphnia magna EC_{50}, 21 day: >0,8 mg/l, Daphnia magna NOEC, 21 day: 0,4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: 21 mg/l, Selenastrum capricornutum NOEC, 3 day: 10 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >10000 mg/l, Sludge

Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: >100 mg/l, Salmo gairdneri (Rainbow trout) LC_{50}, 96 hour: >1000 mg/l, Fathead Minnow LC_{50}, 96 hour: >10000 mg/l, Sheepshead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hour: >1000 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >10000 mg/l, Sludge

Phenol, dodecyl-, branched

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 4 day: 40 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 0,037 mg/l, Daphnia magna EC_{50}, 4 day: >0,58 mg/l, Shrimp (Mysidopsis Bahia) EC_{50}, 21 day: 0,0079 mg/l, Daphnia magna NOEC, 21 day: 0,0037 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hour: 0,36 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >1000 mg/l, Sludge

MAXIMUS HD 15W-40

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

Chronic aquatic toxicity

M factor (Chronic) 10

Diphenylamine

Acute aquatic toxicity

LE(C)$_{50}$ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC_{50}, 2 day: 2,2 mg/l,

Acute toxicity - aquatic invertebrates EC_{50}, 2 day: 0,31 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 3 day: 1,51 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability No specific test data are available.

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 parafinic

Persistence and degradability This material is not expected to be readily biodegradable. The product has not been tested. The expression is derived from the properties of each component.

Distillates (petroleum) hydrotreated heavy parafinic

Persistence and degradability This material is not expected to be readily biodegradable. The product has not been tested. The expression is derived from the properties of each component.

Mineral oil (mixture)

Biodegradation Carbon dioxide formation - 31: 28 day, OECD TG 301B

Bis(nonylphenyl)amine

Biodegradation - 0 %: 28 day

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

Biodegradation Carbon dioxide formation - 1,5 %: 28 day, OECD TG 301B

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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.

Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari

Biodegradation	Oxygen discharge - 8 %: 28 d OECD TG 301 D

Phenol, dodecyl-, branched

Biodegradation	Miscellaneous - 10 %: 56 day Carbon dioxide formation - 25 %: 28 day, OECD TG 301B

Diphenylamine

Biodegradation	Oxygen discharge - 26 %: 28 day, OECD TG 301 D

12.3. Bioaccumulative potential

Bioaccumulative potential	No specific test data are available.
Partition coefficient	No other information known.

Ecological information on ingredients.

Bis(nonylphenyl)amine

Partition coefficient	log Kow: > 7

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

Partition coefficient	log Kow: 0,56

Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari

Partition coefficient	log Kow: 10,88 Supplier's information.

Phenol, dodecyl-, branched

Bioaccumulative potential	BCF: 794,33, Measured
Partition coefficient	log Kow: 7,14

Diphenylamine

Partition coefficient	log Kow: 3,4

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.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not relevant.

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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.

12.6 Endocrine disrupting properties

Endocrine disrupting properties This product does not have endocrine disrupting properties.

Ecological information on ingredients.

Distillates (petroleum) hydrotreated heavy parafinic

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

Distillates (petroleum) hydrotreated heavy parafinic

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 No other information known.

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 Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Environmental Manager must be informed of all major spillages. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

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

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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.

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

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

National regulations T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous Substances and Mixtures
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.

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Safety Data Sheets for Substances and Preparations.
Source: European Chemicals Agency, http://echa.europa.eu/

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15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

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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.

Abbreviations and acronyms used in the safety data sheet

E.U. : European union
DMSO: Dimethyl sulfoxide
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.
DNEL: Derived No Effect Level.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
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.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
BCF: Bioconcentration Factor.
DMEL: Derived Minimal Effect Level.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Asp. Tox. = Aspiration hazard
STOT SE = Specific target organ toxicity-single exposure
STOT RE = Specific target organ toxicity-repeated exposure
Skin Corr. = Skin corrosion
Skin Sens. = Skin sensitisation
Skin Irrit. = Skin irritation
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Carc. = Carcinogenicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

General information

Only trained personnel should use this material. 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. MSDS Distribution : The information in this document should be made available to all who may handle the product. 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. 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.

Key literature references and sources for data

This SDS is prepared based on the information received from suppliers.

MAXIMUS HD 15W-40

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

Classification procedures according to Regulation (EC) 1272/2008	Eye Irrit. 2 - H319: Supplier information, Calculation method. Aquatic Chronic 3 - H412: Supplier information, Calculation method. EUH208: Supplier information, Calculation method.
Training advice	Untrained personnel should not use.
Revision comments	Adding content information.
Issued by	Ece Yigit Chemical Assessment Specialist (Certificate No: KDU01.30.08 18.02.2028)
Revision date	21/02/2024
Revision	4
Supersedes date	13/06/2011
SDS number	10437
Hazard statements in full	H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. 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. H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled. EUH208 Contains Benzensülfonik asit, mono-C16-24-alkil türevleri, kalsiyum tuzlari. May produce an allergic reaction.