SAFETY DATA SHEET
MAXIMUS HD-E 5W-30

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-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/ Istanbul
Tel: +90 850 339 1919
Fax: +90 216 275 3854
madeniyag@petrolofisi.com.tr

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Manufacturer 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

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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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

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

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic baseoil **40-60%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0065

Classification
Asp. Tox. 1 - H304

1-decene homopolymer hydrogenated **25-40%**

CAS number: 68037-01-4

Classification
Asp. Tox. 1 - H304

Mineral oil (mixture) **10-20%**

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

Distillates (petroleum), hydrogenated heavy parafinic **10-20%**

CAS number: — EC number: 265-157-1

Classification
Asp. Tox. 1 - H304

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

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

Classification
Aquatic Chronic 4 - H413

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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.

Zinc O,O,O',O'-tetrakis(1,3dimethylbuthyl)bis(fosforodithioat) **<1%**

CAS number: — EC number: 218-679-9

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

Butanedioic acid, 2,3-dihydroxy-, mixed C12-16-alkyl and C13-rich C11-14-isoalkyl diesters, (2R,3R)-rel- **<1%**

CAS number: — EC number: 482-100-8

Classification
Eye Dam. 1 - H318

Mineral oil **<1%**

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.

Classification
Asp. Tox. 1 - H304

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

2,6-di-tert-butyl-p-cresol **<1%**

CAS number: — EC number: 204-881-4

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

Classification
Skin Irrit. 2 - H315
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%

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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.

Ingredient notes	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.
Inhalation	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	IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention. Do not rub eye. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.
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	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	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
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	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.
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO). A complex mixture of airborne solids, liquids and gases can be released.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours.

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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.

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	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.
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

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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.

Occupational exposure limits

Mineral Oil- inhalable fraction: TWA : 5 mg/m3 (Source:US. ACGIH Threshold Limit Values (02 2012))
Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours.
Distillates (petroleum) solvent-dewaxed heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours/ STEL: 10 mg/m3, 15 minutes.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

There is no available data.

Ingredient comments	No other information known.
Biological limit values	No information available.
DNEL	No information available.
DMEL	No information available.
PNEC	No information available.

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

Ingredient comments	There is no available data.
Biological limit values	There is no available data.
DNEL	Workers - Inhalation; Long term systemic effects: 2,7 (8h) mg/m³ Workers - Inhalation; Long term local effects: 5,4 (8h) mg/m³ Consumer - Inhalation; Long term local effects: 1,2 (24h) mg/m³ Consumer - Oral; Long term systemic effects: 0,74 (24h) mg/kg/day Workers - Dermal; Long term systemic effects: 1,0 (8h) mg/kg
DMEL	No information available.
PNEC	No information available.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours.
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	Wear chemical splash goggles. Wear face protection.
Hand protection	Wear protective gloves. Frequent changes are recommended.
Other skin and body protection	Avoid contact with skin. Wear apron or protective clothing in case of 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.

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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.

Respiratory protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where airfiltering respirators are suitable, select an appropriate combination of mask and filter. All respiratory protection equipment and use must be in accordance with local regulations.
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. 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 ºC 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.

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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.

Viscosity	9,3-12,5 @ 100°C°C
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.
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.
Volatile organic compound	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

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

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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.

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.
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	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.
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	Based on available data the classification criteria are not met.
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	Not listed.

MAXIMUS HD-E 5W-30

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

NTP carcinogenicity	Not listed.
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	No specific target organs known.
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.
Aspiration hazard	Based on available data the classification criteria are not met.

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

11.2 Information on other hazards

Information on other hazards	No available information.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Other health effects	No information required.

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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.

Toxicological effects	Information given is based on data of the components and of similar products.
Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.
Notes (oral LD_{50})	LD_{50} >5000 (OECD 401)/API 1982a mg/kg, Oral, Rat
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Notes (dermal LD_{50})	LD_{50} >5000 (OECD 402)/API 1982a mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC_{50})	LC50, 4h 5,53 (OECD 403)/Exxon Biomedical Sciences, Inc.(1988a) mg/l, Inhalation, Rat
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.
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	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.
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	Based on available data the classification criteria are not met.
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.

MAXIMUS HD-E 5W-30

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

IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
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	No specific target organs known.
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	Slight irritation of the respiratory tract may occur, if mists are inhaled.
Aspiration hazard	May be fatal if swallowed and enters airways.

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

1-decene homopolymer hydrogenated

Acute toxicity - oral

MAXIMUS HD-E 5W-30

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

Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rat
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	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)

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_{50})	LD_{50} >5000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit

Phenol, dodecyl-, branched

MAXIMUS HD-E 5W-30

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	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

Toxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Summary	No other information known.
Acute toxicity - fish	No other information known.
Acute toxicity - aquatic invertebrates	No other information known.
Acute toxicity - aquatic plants	No other information known.
Acute toxicity - microorganisms	No other information known.
Acute toxicity - terrestrial	No other information known.

Chronic aquatic toxicity

Summary	May cause long lasting harmful effects to aquatic life.
Chronic toxicity - fish early life stage	No specific test data are available.

MAXIMUS HD-E 5W-30

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

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 paraffinic baseoil

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

1-decene homopolymer hydrogenated

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hour: >1000 mg/l, Salmo gairdneri (Rainbow trout) LC_{50}, 96 hour: >750 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 190 mg/l, Daphnia Magna

MAXIMUS HD-E 5W-30

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	NOELR, 72 hour: 1000 mg/l, Selenastrum capricornutum, Static test Method: OECD Test Guideline 201

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

Distillates (petroleum), hydrogenated heavy parafinic

Acute aquatic toxicity	
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

bis(nonylphenyl)amine

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

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

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 4 day: 4,5 mg/l, Oncorhynchus mykiss (Rainbow trout) NOEC, 4 day: 1,8 mg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 4 day: 46 mg/l, Sheepshead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 23 mg/l, Daphnia magna NOEC, 2 day: 10 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

Mineral oil

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

MAXIMUS HD-E 5W-30

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: >100 mg/l, Scenedesmus quadricauda

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
Chronic aquatic toxicity	
M factor (Chronic)	10

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

Acute aquatic toxicity	
LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 0,48 mg/l, Daphnia magna
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 paraffinic baseoil

Persistence and degradability	OECD 301B:2-4 %,28 d ;OECD 301F:31 %,28 d
Phototransformation	Inconclusive data.

MAXIMUS HD-E 5W-30

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

Stability (hydrolysis)	Inconclusive data.
Biodegradation	Inconclusive data.
Biological oxygen demand	Inconclusive data.
Chemical oxygen demand	Inconclusive data.

1-decene homopolymer hydrogenated

Biodegradation	Expected to be inherently biodegradable. (Supplier information)

Mineral oil (mixture)

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

Distillates (petroleum), hydrogenated heavy parafinic

Biodegradation	Oxygen discharge - 31 %: 28 day, OECD TG 301 F

bis(nonylphenyl)amine

Biodegradation	Carbon dioxide formation - 0 %: 28 day, OECD TG 301B

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

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

Mineral oil

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

Phenol, dodecyl-, branched

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

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

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.

MAXIMUS HD-E 5W-30

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

1-decene homopolymer hydrogenated

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: ºC 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.

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.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

MAXIMUS HD-E 5W-30

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

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).
Road transport notes	Avoid releasing into the environment.
Rail transport notes	Not classified.
Sea transport notes	Do not release into the environment.
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

MAXIMUS HD-E 5W-30

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. 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.
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Safety Data Sheets for Substances and Preparations.
Health and environmental listings	Hazardous ingredients are listed.
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

MAXIMUS HD-E 5W-30

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 STEL: Short term exposure limit T.C. : Republic of Turkey TWA: Workplace exposure limits UZEM: National Poison Information Center 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. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. 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. BOD: Biochemical Oxygen Demand. EC_{50}: 50% of maximal Effective Concentration. LOAEL: Lowest Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.
Classification abbreviations and acronyms	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
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. MSDS Distribution : The information in this document should be made available to all who may handle the product. 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 suppliers.
Classification procedures according to Regulation (EC) 1272/2008	Aquatic Chronic 4 - H413: On basis of test data., Calculation method.
Training advice	Untrained personnel should not use.
Revision comments	Revised classification.

MAXIMUS HD-E 5W-30

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

Issued by	Sena Ezgi Selçuk Chemical Assessment Specialist (Certificate No: KDU01.29.06 17.12.2027)
Revision date	05/04/2024
Revision	5
Supersedes date	23/03/2016
SDS number	10389
Hazard statements in full	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.