SAFETY DATA SHEET
MAXIMUS HD-E 10W40

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 10W40

Product number 11364

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

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

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 Müşteri Hizmetleri Tel: 0 (212) 329 19 19 (mesai saatleri)

National emergency telephone number National Poison Consultance Center: 114 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

2.2. Label elements

Hazard statements EUH208 Contains N,N-bis(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE. May produce an allergic reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P401 Store in accordance with national regulations.
P264 Wash hands thoroughly after handling.
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.

MAXIMUS HD-E 10W40

2.3. Other hazards

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

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

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

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

Classification
Not Classified

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

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.

Classification
Asp. Tox. 1 - H304

Mineral Oil **1-5%**

CAS number: 64742-55-8

Classification
Not Classified

Distillates (petroleum), hydrogenated heavy parafinic **1-5%**

CAS number: — EC number: 265-157-1

Classification
Asp. Tox. 1 - H304

MAXIMUS HD-E 10W40

bis(nonylphenyl)amine **<1%**

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

Classification
Aquatic Chronic 4 - H413

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) **<1%**

CAS number: — EC number: 218-679-9

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

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

CAS number: — EC number: 283-392-8

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

N,N-bis(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE **<1%**

CAS number: 91273-04-0 EC number: 401-280-0

Classification
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

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

MAXIMUS HD-E 10W40

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

O,O,O-trifenil fosforotioat		**<1%**
CAS number: 597-82-0	EC number: 209-909-9	

Classification
Repr. 2 - H361

Fuelsi diesel		**<1%**
CAS number: 68334-30-5	EC number: 269-822-7	

Classification
Carc. 2 - H351

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

Composition comments The DMSO contents of some substances are classified by the manufacturer as <3% according to IP 346.

Ingredient notes See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information If in doubt, get medical attention promptly. First aid personnel should wear appropriate protective equipment during any rescue. Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention.

Ingestion If throat irritation or coughing persists, proceed as follows. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if symptoms are severe or persist. Consult a physician for specific advice.

Skin contact Get medical attention immediately. Brush off loose particles from skin. Remove contamination with soap and water or recognised skin cleansing agent. Take off immediately all contaminated clothing and wash it before reuse. Get medical attention if symptoms are severe or persist after washing.

Eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. 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

MAXIMUS HD-E 10W40

General information	Treat symptomatically. See Section 11 for additional information on health hazards.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	May irritate eyes and skin.

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

Notes for the doctor	Treat symptomatically.
Specific treatments	No specific chemical antidote is known to be required after exposure to this product. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish. Water can be used to cool and protect exposed material.
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. Hydrogen sulphide (H2S).

5.3. Advice for firefighters

Protective actions during firefighting	Avoid the spillage or runoff entering drains, sewers or watercourses. No action shall be taken without appropriate training or involving any personal risk. Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use special protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No action shall be taken without appropriate training or involving any personal risk. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust and contact with skin and eyes.
For non-emergency personnel	Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

MAXIMUS HD-E 10W40

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 Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water sources, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may be pose the same hazard as the spilled product.

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 Take precautionary measures against static discharges. Wear protective clothing as described in Section 8 of this safety data sheet.

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

MAXIMUS HD-E 10W40

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

There is no available data.

Distillates (petroleum) hydrotreated heavy parafinic

TWA : 5 mg/m3 (Belgium)

Distillates (petroleum) hydrotreated heavy parafinic

TWA : 5 mg/m3 (Belgium)

Mineral Oil

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

Ingredient comments	If this product contains a component with exclusion limits,to determine the effectiveness of ventilation and other control measures; and / or the necessity of the use of respiratory protective devices, the working environment or biological measurement and monitoring of employees may be required.The European Standard EN 689 and the relevant national guidelines should be taken as reference for the detection methods for assessing exposure to inhalation of chemicals of hazardous substances.
Biological limit values	No information available.
DNEL	Information given is based on data of the components and of similar products.
DMEL	Information given is based on data of the components and of similar products.
PNEC	Information given is based on data of the components and of similar products.

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	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
Personal protection	The following recommendations are made based on information available for the major chemical component.
Eye/face protection	Wear chemical splash goggles. Wear face protection.
Hand protection	Wear protective gloves. Frequent changes are recommended.

MAXIMUS HD-E 10W40

Other skin and body protection	Avoid contact with skin. Wear apron or protective clothing in case of contact.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash contaminated skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product. Warn cleaning personnel of any hazardous properties of the product.
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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Brown.
Odour	Odorless or slightly petroleum oil
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	-39°C
Initial boiling point and range	No specific test data are available.
Flash point	~ 224°C Cleveland 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	~ 0,86 @ 15ºC g/ml
Solubility(ies)	Insoluble in water.

MAXIMUS HD-E 10W40

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 information available.
Oxidising properties	Not known.
Comments	No other information known.

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	It can react with strong oxidizing chemicals such as strong acids or chlorate, nitrate, peroxide, etc.

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.

10.5. Incompatible materials

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

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. Hydrogen sulphide (H2S).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.

MAXIMUS HD-E 10W40

Other health effects	No other information known.
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.
NTP carcinogenicity	Not listed.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.

MAXIMUS HD-E 10W40

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	Based on available data the classification criteria are not met.
General information	No other information known.
Inhalation	No other information known.
Ingestion	No other information known.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	May cause severe 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.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	No information required.

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

MAXIMUS HD-E 10W40

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.
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.

MAXIMUS HD-E 10W40

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.

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

MAXIMUS HD-E 10W40

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)

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)

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(1,3-dimethylbutyl) bis(phosphorodithioate)

Skin sensitisation

Skin sensitisation Classification: Not a skin sensitizer.

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

Skin sensitisation

Skin sensitisation Classification: Not a skin sensitizer.

N,N-bis(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE

Skin sensitisation

MAXIMUS HD-E 10W40

Summary Remarks: Category 1 Classification: May cause sensitization by skin contact. (Literature)

Germ cell mutagenicity

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure During a 28 day oral administration study in rats, this triazole derivative produced moderate to marked stomach irritation at 200 mg/kg/day. The no observable effect level (NOEL) for this study was 60 mg/kg/day. (Supplier information.)

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

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.

O,O,O-trifenil fosforotioat

Skin sensitisation

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

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) Repeated oral gavage dosing of laboratory animals with aryl thiophosphate in a reproductive/developmental toxicity screening study resulted in litter loss and decreases in number of implantation sites at high doses.

MAXIMUS HD-E 10W40

Specific target organ toxicity - repeated exposure

Summary Repeated overexposure may result in liver and kidney damage.

Fuelsi diesel

Carcinogenicity

Carcinogenicity Known or suspected carcinogen for humans.

SECTION 12: Ecological information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

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 No other information known.

Chronic toxicity - fish early life stage No other information known.

Short term toxicity - embryo and sac fry stages No other information known.

Chronic toxicity - aquatic invertebrates No other information known.

Toxicity to soil No other information known.

Toxicity to terrestrial plants No other information known.

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.

MAXIMUS HD-E 10W40

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.

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

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

MAXIMUS HD-E 10W40

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(1,3-dimethylbutyl) bis(phosphorodithioate)

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: 4,5 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 NOEC, 21 day: 0,4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: 21 mg/l, Selenastrum capricornutum

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

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
Acute toxicity - aquatic plants	EC_{50}, 3 day: >100 mg/l, Scenedesmus quadricauda

Phenol, dodecyl-, branched

Acute aquatic toxicity

MAXIMUS HD-E 10W40

$LE(C)_{50}$	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

O,O,O-trifenil fosforotioat

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 NOEC, 21 day: >5,5 mg/l, Daphnia Magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: >100 mg/l, Scenedesmus quadricauda
Acute toxicity - microorganisms	EC_{50}, 3 week: >100 mg/l, Sludge

12.2. Persistence and degradability

Persistence and degradability	No other information known.
Phototransformation	No other information known.
Stability (hydrolysis)	No other information known.
Biodegradation	No other information known.
Biological oxygen demand	No other information known.
Chemical oxygen demand	No other information known.

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

MAXIMUS HD-E 10W40

Chemical oxygen demand Inconclusive data.

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

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(1,3-dimethylbutyl) bis(phosphorodithioate)

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

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

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

O,O,O-trifenil fosforotioat

Biodegradation Carbon dioxide formation - 17,8-19,3: 28 OECD TG 301B

12.3. Bioaccumulative potential

Bioaccumulative potential No other information known.

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 10W40

bis(nonylphenyl)amine

Bioaccumulative potential BCF: 1584,89, Measured

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Partition coefficient log Kow: ºC 2,21 20

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

Partition coefficient log Kow: 0,56

Phenol, dodecyl-, branched

Bioaccumulative potential BCF: 794,33, Measured

Partition coefficient log Kow: 7,14

O,O,O-trifenil fosforotioat

Bioaccumulative potential BCF: 2,551, Fish

12.4. Mobility in soil

Mobility No other information known.

Adsorption/desorption coefficient No other information known.

Henry's law constant No other information known.

Surface tension No other information known.

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.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Results of PBT and vPvB assessment Not relevant.

Distillates (petroleum) hydrotreated heavy parafinic

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

MAXIMUS HD-E 10W40

Distillates (petroleum) hydrotreated heavy parafinic

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

O,O,O-trifenil fosforotioat

Results of PBT and vPvB assessment Possibly Persistent, Bioaccumulative and Toxic

Fuelsi diesel

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.

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 Not regulated.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

MAXIMUS HD-E 10W40

Environmentally hazardous substance/marine pollutant

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 Annex II of MARPOL 73/78 and the IBC Code	Not relevant.

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.
Guidance	Safety Data Sheets for Substances and Preparations.
Health and environmental listings	Hazardous ingredients are listed.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

DMSO: Dimethyl sulfoxide
T.C. : Republic of Turkey
TWA: Workplace exposure limits
UZEM: National Poison Information Center
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
LC_{50}: Lethal Concentration to 50 % of a test population.
PBT: Persistent, Bioaccumulative and Toxic substance.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
vPvB: Very Persistent and Very Bioaccumulative.
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.
NOEC: No Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.

MAXIMUS HD-E 10W40

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. 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. Uses and Restrictions : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Key literature references and sources for data	This SDS is prepared based on the information received from raw material suppliers.
Classification procedures according to Regulation (EC) 1272/2008	EUH208: Calculation method. Aquatic Chronic 3 - H412: Calculation method.
Training advice	Untrained personnel should not use.
Issued by	Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
Revision	0
Supersedes date	04/10/2019
SDS number	20555
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. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer if swallowed. H360 May damage fertility or the unborn child if swallowed. H361 Suspected of damaging 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. EUH208 Contains N,N-bis(2-ETHYLHEXYL)-((1,2,4-TRIAZOL-1-YL)METHYL)AMINE. May produce an allergic reaction.

MAXIMUS HD-E 10W40