



SAFETY DATA SHEET

MAXIMA 0W20

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 MAXIMA 0W20

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.
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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 National Poison Consultance Center: 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P401 Store in accordance with national regulations.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic baseoil 60-80% CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0065
Classification Asp. Tox. 1 - H304
Distillates (petroleum), hydrogenated heavy paraffinic 10-20% CAS number: — EC number: 265-157-1
Classification Asp. Tox. 1 - H304
1-decen homopolimer hidrojenlenmiş 1-5% CAS number: 68037-01-4
Classification Asp. Tox. 1 - H304
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 1-5% CAS number: 68649-42-3 EC number: 272-028-3
Classification Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,C7-9-branched alkyl esters <1% CAS number: 125643-61-0 EC number: 406-040-9
Classification Aquatic Chronic 4 - H413
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene <1% CAS number: 68921-45-9 EC number: 272-940-1
Classification Aquatic Chronic 2 - H411

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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		
DIPHENYLAMINE		<0,1%
CAS number: 122-39-4	EC number: 204-539-4	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

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	Treat symptomatically.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Move affected person to fresh air at once. Remove affected person from source of contamination. Maintain an open airway. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist. Consult a physician for specific advice.
Ingestion	IF SWALLOWED: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Place unconscious person on their side in the recovery position and ensure breathing can take place. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Skin contact	Brush off loose particles from skin. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash skin thoroughly with soap and water. Following contact with hot product, immediately immerse affected area in, or flush with, large amounts of cold water to dissipate heat and cover with clean cotton sheeting or gauze. Get medical attention if irritation persists after washing. Effects may be delayed. Show this Safety Data Sheet to the medical personnel. 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.

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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	No specific symptoms known.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	No specific symptoms known.

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

Notes for the doctor	No specific symptoms known.
Specific treatments	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Oxides of carbon. Oxides of nitrogen.
Hazardous combustion products	Carbon dioxide (CO ₂). 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. Control run-off water by containing and keeping it out of sewers and watercourses. Use water to keep fire exposed containers cool and disperse vapours.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use air-supplied respirator, gloves and protective goggles.

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.

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For emergency responders Wear protective clothing as shown in section 8 of this safety data sheet. Notification: In case of spillage, notify the local authorities as appropriate or as necessary. Stop the leakage source if it can be done without risk. Limit spillage to prevent further contamination of soil, surface or ground water. Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection. Use suitable techniques such as non-flammable absorbent materials or pumping. When possible or appropriate, remove the contaminated soil from the area. Place contaminated products in disposable boxes and dispose of in accordance with regulations. If a heated material is spilled, allow it to cool before handling with disposal methods.

6.2. Environmental precautions

Environmental precautions 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

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Distillates (petroleum), hydrotreated heavy paraffinic baseoil

There is no available data.

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

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/m ³ Workers - Inhalation; Long term local effects: 5,4 (8h) mg/m ³ Consumer - Inhalation; Long term local effects: 1,2 (24h) mg/m ³ 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.

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.

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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	Brownish.
Odour	Odorless or slightly petroleum oil
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	No information available.
Initial boiling point and range	No specific test data are available.
Flash point	~ 236°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	~ 0,844 g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	No specific test data are available.

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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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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

Acute toxicity - oral

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

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

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Acute toxicity - dermal

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

Notes (dermal LD₅₀) 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 LC₅₀) 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.

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

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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	Based on available data the classification criteria are not met.
Eye contact	Based on available data the classification criteria are not met.
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.
<u>Acute toxicity - oral</u>	
Summary	Based on available data the classification criteria are not met.
Notes (oral LD₅₀)	LD ₅₀ >5000 (OECD 401)/API 1982a mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Summary	Based on available data the classification criteria are not met.
Notes (dermal LD₅₀)	LD ₅₀ >5000 (OECD 402)/API 1982a mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Summary	Based on available data the classification criteria are not met.

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Notes (inhalation LC₅₀) 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.

Specific target organ toxicity - single exposure

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

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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), hydrogenated heavy paraffinic

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)

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Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

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Notes (inhalation LC₅₀) LC₅₀ >5,2 (4h) mg/l, Inhalation, Rat

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 26100 mg/kg, Oral, Rat

Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat

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

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 Based on available data the classification criteria are not met.

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.

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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.
<u>Acute aquatic toxicity</u>	
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.
<u>Chronic aquatic toxicity</u>	
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), hydrogenated heavy paraffinic

<u>Acute aquatic toxicity</u>	
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

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<u>Acute aquatic toxicity</u>	
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
Acute toxicity - aquatic plants	NOELR, 72 hour: 1000 mg/l, Selenastrum capricornutum, Static test Method: OECD Test Guideline 201

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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , : 10 (10-35) mg/l, Pimephales promelas (Fat-head Minnow), OECD GDL 203, (water accomodated fraction) NOEC, : 10 mg/l, Pimephales promelas (Fat-head Minnow), OECD GDL 203, (water accomodated fraction)
Acute toxicity - aquatic invertebrates	EC ₅₀ , : 1(1-1,5) mg/l, Daphnia magna, OECD GDL 202, (water accomodated fraction)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, : <1 mg/l, Marinewater invertebrates
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Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , : >74 mg/l, Fish NOEC, : 100 mg/l,
Acute toxicity - aquatic invertebrates	EC ₅₀ , : 4,3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, : >3 mg/l, Algae

Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , : >10000 mg/l, Fish
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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
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DIPHENYLAMINE

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , : 4,14 ppm, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , : 2,46 mg/l, Daphnia magna

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Acute toxicity - microorganisms	EC ₅₀ , : 0,36 mg/l, other aquatic organisms
<u>Chronic aquatic toxicity</u>	
NOEC	0.01 < NOEC ≤ 0.1
Degradability	Non-rapidly degradable
M factor (Chronic)	1

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.
Chemical oxygen demand	Inconclusive data.

Distillates (petroleum), hydrogenated heavy paraffinic

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

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Biodegradation Expected to be inherently biodegradable. (Supplier information)

Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,C7-9-branched alkyl esters

Persistence and degradability Not expected to be readily biodegradable.

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 other information known.

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Partition coefficient No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Bioaccumulative potential Inconclusive data.

Partition coefficient Inconclusive data.

1-decen homopolimer hidrojenlenmiş

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

Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene

Bioaccumulative potential log Pow: 5,2,

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

Partition coefficient log Kow: 5,03

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.

12.6. Other adverse effects

Other adverse effects No other information known.

Ecological information on ingredients.

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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

Environmentally hazardous substance/marine pollutant

Not applicable.

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.

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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. LC₅₀: 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. EC₅₀: 50% of maximal Effective Concentration. NOEC: No Observed Effect Concentration. DMEL: Derived Minimal Effect Level.
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Asp. Tox. = Aspiration hazard STOT SE = Specific target organ toxicity-single exposure STOT RE = Specific target organ toxicity-repeated exposure Skin Corr. = Skin corrosion Skin Sens. = Skin sensitisation Skin Irrit. = Skin irritation Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Carc. = Carcinogenicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
General information	Only trained personnel should use this material. 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.

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Classification procedures according to Regulation (EC) 1272/2008	Not classified for health hazards., Not classified for physical hazards., Not classified for environmental hazards.: Calculation method., Supplier information
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 date	30/01/2020
Revision	1
Supersedes date	25/04/2011
SDS number	20788
Hazard statements in full	H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. 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.

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