SAFETY DATA SHEET
MAXIMA VSA 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 VSA 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.
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 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 EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

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 local regulations.
P501 Dispose of contents/ container in accordance with regional regulations.

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

1-decen homopolimer hidrojenlenmiş **40-60%**

CAS number: 68037-01-4

Classification
Asp. Tox. 1 - H304

Distilltes (petroleum), hydrotreated heavy paraffinic baseoil **20-25%**

CAS number: 64742-54-7

Classification
Asp. Tox. 1 - H304

Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı **5-10%**

CAS number: 72623-86-0 EC number: 276-737-9

Classification
Asp. Tox. 1 - H304

Lubricating Oils, petroleum C20-C50, hydrotreated neutral oil-based **1-5%**

CAS number: 72623-87-1 EC number: 276-738-4

Classification
Asp. Tox. 1 - H304

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik **1-5%**

CAS number: 64742-54-7 EC number: 265-157-1

Classification
Not Classified

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

CAS number: —

Classification
Aquatic Chronic 4 - H413

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Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	**<1%**
CAS number: —	EC number: 298-577-9
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	**<1%**
CAS number: —	
Classification Aquatic Chronic 4 - H413	

C14-16-18 Alkyl phenol	**<1%**
CAS number: —	EC number: 931-468-2
Classification Skin Sens. 1B - H317 STOT RE 2 - H373	

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	**<1%**
CAS number: —	
Classification Asp. Tox. 1 - H304	

2-ethylhexanoic acid, zirconium salt	**<1%**
CAS number: —	
Classification Repr. 2 - H361	

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.

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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.
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. Contains . May produce an allergic reaction.
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 (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. 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

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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.

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)

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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

Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı

TLV/TWA
5 mg/m3
8 hours
EU OEL

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

TLV/TWA
EU OEL
5 mg/m3
8 hours

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.

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	Green.
Odour	Odorless or slightly petroleum oil
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	-51°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	~ 0,84 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 LD_{50})	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 LD_{50})	May produce an allergic reaction.

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.
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	May cause skin sensitisation or allergic reactions in sensitive individuals.
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.

1-decen homopolimer hidrojenlenmiş

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, Rat

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 >5,2 (4h) mg/l, Inhalation, Rat

Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat Sub-kronik, NOAEL 125 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >5000 mg/kg, Dermal, Rabbit Sub-kronik, NOAEL 30 mg/kg, Dermal, Rat Sub-akut, NOAEL 1000 mg/kg, Dermal, Rabbit

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Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 >5,53 mg/l, 4 hour, Vapour Rat Sub-akut 0,98 mg/l, 4 week, Vapour Rat Sub-kronik 0,15 mg/l, 13 week, Vapour Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity TD 78 Ambiguous uncertain, , Mouse

Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - : Negative., Dermal, Rat Developmental toxicity: - : Negative., Oral, Rat Teratogenicity: - : Negative., Dermal, Rat

Aspiration hazard

Aspiration hazard Aspiration Hazard

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 125 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >5000 mg/kg, Dermal, Rabbit NOAEL, Sub-kronik 30 mg/kg, Dermal, Rat, Female NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 >5,53 mg/l, 4 hour, Vapour Rat NOAEL, Sub-kronik 0,22 mg/l, 4 week, Dust/Mist Rat NOAEL, Sub-kronik 0,15 mg/l, 13 week, Dust/Mist Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity 78 week, Negative., Dermal, Mouse

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Reproductive toxicity

Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Teratogenicity: - : Negative., Dermal, Rat Maternal toxicity: - Negative.: , Oral, Rat Developmental toxicity: - Negative.: , Oral, Rat

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 2600 mg/kg, Oral, Rat, Male

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >3160 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 >2 mg/l, 1 week, Vapour Rat, Male

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	Not sensitising.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

Reproductive toxicity

Summary	NOAEL 160 mg/kg, , Rat

SECTION 12: Ecological information

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.

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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.

1-decen homopolimer hidrojenlenmiş

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

Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL50, 48 hours: >10000 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEL, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEL, 72 hour: >=100 mg/l, Alg NOEL, 21 day: 10 mg/l, Daphnia magna

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow) NOEL, chronic, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: >10000 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 10 mg/l, Daphnia magna NOEL, 72 hour: >=100 mg/l, Pseudokirchneriella subcapitata

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Acute aquatic toxicity

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Acute toxicity - fish	LC_{50}, 96 hour: 4,5 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: 5,4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EbC50, 96 hour: 2,1 mg/l, Selenastrum capricornutum

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.

1-decen homopolimer hidrojenlenmiş

Biodegradation	Expected to be inherently biodegradable. (Supplier information)

Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı

Biodegradation	OECD 301 F - 31: % 28 day

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Biodegradation	OECD 301 F - 31 %: 28 day

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Biodegradation	- 1,5 %: 28 day

12.3. Bioaccumulative potential

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

Ecological information on ingredients.

1-decen homopolimer hidrojenlenmiş

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

Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)

Bioaccumulative potential	log Pow: 0,9, nin 23C

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.

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Surface tension No other information known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects No other information known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

Disposal methods 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

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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.

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.

MAXIMA VSA 0W20

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., Supplier information
Training advice	Untrained personnel should not use.
Revision comments	This is the first issue.
Issued by	Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
Revision date	23/11/2020
Revision	0
Supersedes date	23/11/2020
SDS number	20762
Hazard statements in full	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child if swallowed. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled. EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.