



**Part I**  
**SAFETY DATA SHEET**  
**MAXIMA VSA 0W20**

Dated December 13, 2014 and numbered 29204, "Ministry of Environment and Urbanization Regarding Hazardous Substances and Mixtures  
It has been arranged in accordance with the provisions of the "Regulation on Safety Data Sheets".

**PART 1: Identity of the substance / mixture and company / distributor**

**1.1. Substance / Mixture identity**

Name of the product MAXIMA VSA 0W20

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

Engine oil.

**Uses not recommended** This product can be used without the recommendation of the supplier in advance.

It should not be used outside of applications. This product is not used as a solvent or cleaning agent to set fire or to make it brighter and to clean the skin. This product has been designed for automotive applications only, and no provision has been made for aerospace application requirements.

**1.3. Information of the supplier of the safety data sheet Contact**

person Customer Service: mineiyag@petrolofisi.com.tr

Producer PETROL OFİSİ A.Ş.  
Ünalın Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar / İstanbul Tel: +90 850 339 1919  
Fax: +90 216 275 3854  
miningiyag@petrolofisi.com.tr

**1.4. Emergency phone number**

**Emergency phone number** Mineral Oil Customer Service: 0850 339 1919 (office hours)

**National emergency phone** Emergency Health Services: 112 National Poison Information Center (UZEM): 114

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification TC 28848**

Physical damages Not classified as harmful

Health hazards Not classified as harmful

Environmental damages Not classified as harmful

**2.2. Label elements**

**Hazard Statements** EUH208 C14-16-18 Contains Alkyl Phenol. May cause an allergic reaction.





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**Reviews on the composition** DMSO contents of some substances are classified by the manufacturer as <3% according to IP 346.

**Content notes** See Section 8 for occupational exposure limits.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures General**

**information** Treat symptomatically.

**Breathing** Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably. Move affected person to fresh air immediately. Remove affected person from source of contamination. Keep the airways clear. Never give anything by mouth to an unconscious person. If symptoms are severe or persistent, seek medical attention. Consult a doctor for specific advice.

**Swallowing** INGESTION: 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 the vomit does not enter the lungs. Place the unconscious person on his side in the first aid position and allow breathing to take place. Loosen tight parts of clothing such as a collar, tie or belt. If symptoms are severe or persistent, seek medical attention.

**Skin contact** Clean the remaining parts of the skin. Rinse contaminated clothing and skin immediately with plenty of water before taking off your clothing. Wash skin thoroughly with soap and water. After contact with hot product, immediately dip or rinse the affected area with copious amounts of cold water to remove heat and wrap with a clean cotton cloth or gauze. If irritation persists after washing, seek medical attention. Its effects may be delayed. Show this Safety Data Sheet to healthcare professionals. If discomfort continues, seek medical attention.

**Eye contact** IN EYE CONTACT: Remove contact lens, if present and easy to do. Rinse constantly. Continue flushing for at least 15 minutes and seek medical attention. Do not rub your eyes. Consult a doctor for specific advice. Show this Safety Data Sheet to healthcare professionals.

**First aid workers preservation** First aid personnel should wear appropriate protective equipment during rescue.

**4.2. Most important symptoms and effects, both acute and delayed General**

**information** There are no specific symptoms known.

**Breathing** There are no specific symptoms known.

**Swallowing** There are no specific symptoms known.

**Skin contact** May cause skin sensitization and allergic reactions in sensitive individuals.

**Eye contact** There are no specific symptoms known.

**4.3. Indication of any medical attention and special treatment needed Information to be**

**given to the doctor** There are no specific symptoms known. Contains alkyl phenol. May cause an allergic reaction.

**Special treatments** Treat symptomatically.

**SECTION 5: Firefighting measures**

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**5.1. Fire extinguishers**

**Suitable extinguishing agents** The product is not flammable. Use an appropriate extinguishing agent to contain the fire.

**Unsuitable extinguisher substances** Do not use water jet to extinguish the fire, in case the fire spreads.

**5.2. Special hazards arising from the substance or mixture Special hazards**

Carbon oxides. Nitrogen oxides.

**Harmful combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). A complex mixture of airborne solids, liquids and gases can be released.

**5.3. Advice for firefighters**

**During fire fighting preservative to be taken measures** Avoid breathing fire gases or vapors. Flowing fire-fighting water, Take control by limiting and blocking access to sewers and waterways. To fire Use water to cool exposed containers and disperse vapors.

**For firefighters special protective equipment** Positive pressure self-contained breathing apparatus and suitable protective clothing get dressed. 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 appropriate protective equipment such as gloves, protective goggles / face shield, respirator, boots, clothing or apron. No action should be taken without proper training or any personal hazard. Make sure procedures and emergency training are in place for on-site cleaning and disposal. Do not touch or walk on spilled material. Avoid inhalation of dust and contact with skin and eyes.

**Emergency personnel for those who are not** Necessary precautions should be taken so that personnel who do not have proper training do not interfere.

**For emergency responders** Wear protective clothing as shown in section 8 of this safety data sheet. NOTICE: Report spillage to local authorities, as appropriate or necessary. Stop the source of the leak if it can be done without risk. Limit the spill to prevent further contamination of the soil, surface or underground water. Clean up the spilled material as soon as possible, following the precautions in the Exposure Controls / Personal Protection section. Use non-flammable absorbent materials or appropriate techniques such as pumping. Whenever possible or see fit, dig out the contaminated soil from the area. Place contaminated items in disposable containers and dispose of them in accordance with regulations. If a heated substance is spilled,

**6.2. Environmental measures**

**Environmental measures** Contain spillage with sand, earth or other suitable non-flammable material. If environmental pollution occurs (sewage, water supplies, soil or air) notify the relevant authorities.

**6.3. Methods and materials for containment and cleaning**

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**Spill removal methods** For small spills: Stop leak if not at risk. Leak sources take away. Absorb with inert dry material and place in a suitable waste disposal container. Dispose through a licensed waste disposal contractor. Large spills: Stop leak if not at risk. Remove sources of leak from area. Approach with the wind behind you. Prevent from entering drains, water sources, basements or confined areas. Wash the spillage in a waste water treatment plant or proceed as follows. Collect spills with non-flammable, absorbent material and store in packaging according to legal regulations. Dispose of via a licensed waste disposer. Contaminated absorbent material may present hazard similar to 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 precautions against static electricity discharges. Wear protective clothing as shown in Section 8 of this Safety Data Sheet.

**Advice on general occupational hygiene** Good personal hygiene procedures should be followed. Avoid breathing the vapor / mist of the product. Do not eat, drink or smoke anything while using this product. Wash hands after use and before eating, smoking and going to the bathroom.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage measures** Store in a confined area surrounded by a bund to prevent leakage into drains and / or water sources. Keep away from incompatible materials (see Chapter 10). In case of spillage, barge in front of storage facilities to prevent soil and water pollution. Keep only in 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. It should be used as specified in the  
**Directions for use** product data sheet.

**SECTION 8: Exposure Controls / personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**Lube oils (petroleum), C15-30, hydrogen treated neutral oil base**

TLV / TWA

5 mg / m<sup>3</sup>

8 hours

EU OEL

**Distillates (petroleum), hydrogen treated heavy paraffinic**

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TLV / TWA  
EU OEL  
5 mg / m<sup>3</sup>  
8 hours

**Content notes** No other information is available.

**Biological limit values** No other information is available.

**DNEL** No other information is available.

**DMEL** No other information is available.

**PNEC** No other information is available.

**8.2. Exposure controls Protective**

**equipment**



**Proper engineering controls**

Since the product contains components with exposure limits; If dust, smoke, gas, vapor or fog is generated during use, the process area, local exhaust ventilation or other technical controls must be applied to keep worker exposure below legal or recommended limits.

**Personal protection**

The recommendations given below are based on current main chemical component information. Wear goggles

**Eye / Face protection**

against chemical splashes. Use a face shield. Use protective gloves. Frequent change of gloves is recommended.

**Hand protection**

**Other skin and body protection Health**

Avoid contact with skin. Wear apron or protective clothing in case of contact.

**measures**

Good personal hygiene procedures should be followed. Wash contaminated skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash units and emergency shower facilities should be available when working with this product. Warn the cleaning personnel about the dangerous properties of the product.

**Respiratory system**

**preservation**

In places where the concentration in the air cannot be controlled sufficiently to protect workers' health, use respiratory protective devices selected according to the conditions of the relevant location and in accordance with local legislation. Contact respiratory protective equipment suppliers. Use suitable compressed respirators in places where the use of air filter respirators is not suitable (for example, in confined spaces with high concentrations in the air and risk of oxygen deficiency). Where air filter respirators are suitable, select an appropriate mask-filter combination. All respiratory protection equipment and use must comply with local regulations.

**Thermal damages**

If there is danger of contact with hot product, all protective equipment suitable for use with high temperatures should be used.

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**Environmental exposure controls** Compliance of ventilation emissions and work process equipment with environmental protection legislation requirements should be checked. Store in a confined area surrounded by a bund to prevent leakage into drains and / or water sources. Residues and empty containers should be treated as hazardous waste in accordance with local and national provisions.

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties Appearance**

	Liquid.
<b>Color</b>	Green.
<b>Smell</b>	Odorless or very light like petroleum oil
<b>Odor threshold</b>	There is no specific test data available.
<b>pH</b>	Scientifically unjustified.
<b>Melting point / freezing point - 51 ° C</b>	
<b>Initial boiling point and boiling range</b>	There is no specific test data available.
<b>Flash point</b>	~ 224 ° C Cleveland open cup. There is no
<b>Evaporation rate</b>	specific test data available. There is no specific
<b>Evaporation factor</b>	test data available. There is no specific test
<b>Flammability (solid, gas)</b>	data available. There is no specific test data
<b>Upper / Lower flammability or explosive limits</b>	available.
<b>Other flammability</b>	There is no specific test data available. There is
<b>Vapor pressure</b>	no specific test data available. There is no
<b>Vapor density</b>	specific test data available. There is no specific
<b>Relative density</b>	test data available. ~ 0.84 g / ml
<b>Volumetric density</b>	
<b>Resolution (s)</b>	It is insoluble in water.
<b>Partition coefficient</b>	There is no specific test data available. There is
<b>Self ignition temperature</b>	no specific test data available.
<b>Decomposition temperature</b>	There is no specific test data available. There is
<b>Viscosity</b>	no specific test data available. There is no
<b>Explosive properties</b>	specific test data available.



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<b>Explosive under the influence of flame</b>	There is no suitable information.
<b>Oxidizing properties</b>	Not known.
<b>Descriptions</b>	No other information is available.
<b>9.2. Other informations</b>	
<b>Other informations</b>	Required information is not available.
<b>Refractive index</b>	There is no specific test data available. There is
<b>Particle size</b>	no specific test data available. There is no
<b>Molecular weight</b>	specific test data available. There is no specific
<b>Volatility</b>	test data available. There is no specific test data
<b>Saturation concentration</b>	available. There is no specific test data available.
<b>Critical temperature</b>	There is no specific test data available.
<b>Volatile organic compound</b>	

**SECTION 10: Stability and reactivity**

**10.1. Reaction**

**Reaction** With strong acids or with chlorate, nitrate, peroxide, etc. May react with strong oxidizing chemicals such as.

**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** Hazardous reactions will not occur under normal conditions of storage and use.

**10.4. Conditions to avoid** **Conditions to avoid** Keep away from heat, sparks and open flames.

**10.5. Incompatible materials** **Materials to avoid** Strong oxidizing agents. Strong acids. Inorganic halides.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** In complete combustion, dangerous gases including smoke, carbon dioxide and carbon monoxide are produced. Nitrogen oxides.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects** **Toxic**

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

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

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**Acute toxicity - oral Summary**

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

**Notes (oral LD<sub>50</sub>)**

available data, the classification criteria are not met.

**Acute toxicity - dermal Summary**

Based on available data, the classification criteria are not met. May cause an

**Notes (dermal LD<sub>50</sub>)**

allergic reaction.

**Acute toxicity - inhalation**

**Summary**

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

**Notes (inhalation LC<sub>50</sub>)**

available data, the classification criteria are not met.

**Skin corrosion / irritation**

**Summary**

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

**Skin corrosion / irritation**

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

**Animal data**

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

**Human skin model test Extreme**

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

**pH**

criteria are not met.

**Serious eye damage / irritation**

**Summary**

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

**Serious eye damage / irritation**

available data, the classification criteria are not met.

**Respiratory sensitization**

**Summary**

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

**Respiratory tract sensitization**

available data, the classification criteria are not met.

**Skin sensitization**

**Summary**

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

**Skin sensitization**

available data, the classification criteria are not met.

**Germ cell mutagenicity**

**Summary**

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

**Genotoxicity - in vitro**

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

**Genotoxicity - in vivo**

the classification criteria are not met.

**Carcinogenicity**

**Summary**

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

**Carcinogenicity**

available data, the classification criteria are not met.

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<b>Target for carcinogenicity organs</b>	There are no known specific target organs.
<b>IARC carcinogenicity</b>	Not listed.
<b>NTP carcinogenicity</b>	Not listed.
<b><u>Reproductive toxicity</u></b>	
<b>Summary</b>	Based on available data, the classification criteria are not met. Based on
<b>Reproductive system toxicity fertility</b>	available data, the classification criteria are not met.
<b>Reproductive system toxicity developmental</b>	Based on available data, the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure Summary</u></b>	
	Based on available data, the classification criteria are not met.
<b>BHOT- single exposure</b>	Based on available data, the classification criteria are not met.
<b>Target organs</b>	There are no known specific target organs.
<b><u>Specific target organ toxicity - repeated exposure Summary</u></b>	
	Based on available data, the classification criteria are not met.
<b>BHOT- repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Target organs</b>	There are no known specific target organs.
<b><u>Aspiration hazard</u></b>	
<b>Summary</b>	Based on available data, the classification criteria are not met. Based on
<b>Aspiration hazard</b>	available data, the classification criteria are not met.
<b>Toxicokinetics</b>	Based on available data, the classification criteria are not met. No other
<b>General information</b>	information is available.
<b>Breathing</b>	No other information is available.
<b>Swallowing</b>	No other information is available.
<b>Contact with skin</b>	May cause skin sensitization and allergic reactions in sensitive individuals. Based on available
<b>Eye contact</b>	data, the classification criteria are not met.
<b>Acute and chronic health hazards</b>	No other information is available.
<b>Contact ways</b>	No other information is available.
<b>Target organs</b>	No other information is available.
<b>Medical symptoms</b>	No other information is available.
<b>Medical opinions</b>	No other information is available.

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**Toxicological information on ingredients**

**1-decene homopolymer hydrogenated**

**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub>> 5000 mg / kg, Oral, Rat

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub>> 2000 mg / kg, Dermal, Rat

**Acute toxicity - inhalation**

**Remarks (inhalation LC<sub>50</sub>)** LC<sub>50</sub>> 5.2 (4h) mg / l, Inhalation, Rat

**Lube oils (petroleum), C15-30, hydrogen treated neutral oil base**

**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub>> 5000 mg / kg, Oral, Rat Sub-chronic, NOAEL 125 mg / kg, Oral, Rat

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub>> 5000 mg / kg, Dermal, Rabbit Sub-chronic, NOAEL 30 mg / kg, Dermal, Rat Sub-acute, NOAEL 1000 mg / kg, Dermal, Rabbit

**Acute toxicity - inhalation**

**Remarks (inhalation LC<sub>50</sub>)** LC<sub>50</sub>> 5.53 mg / l, 4 hours, Vapor Rat Sub-acute 0.98 mg / l, 4 weeks, Vapor Rat Sub-chronic 0.15 mg / l, 13 weeks, Vapor Rat

**Skin corrosion / irritation**

**Skin corrosion / irritation** It is not irritating.

**Serious eye damage / irritation**

**Serious eye damage / irritation** It is not irritating.

**Skin sensitization**

**Skin sensitization** Not sensitizing.

**Germ cell mutagenicity**

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

**Carcinogenicity**

**Carcinogenicity** TD 78 binary ambiguous,, Mouse

**Reproductive toxicity**

**Reproductive system toxicity** Developmental toxicity: -: Negative., Dermal, Rat Developmental toxicity: -: Negative.,  
developmental Oral, Rat Teratogenicity: -: Negative., Dermal, Rat

**Aspiration hazard**

**Aspiration hazard** Aspiration hazard

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**Distillates (petroleum), hydrogen treated heavy paraffinic**

**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub>> 5000 mg / kg, Oral, Rat LOAEL, Sub-chronic 125 mg / kg, Oral, Rat

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub>> 5000 mg / kg, Dermal, Rabbit NOAEL, Sub-chronic 30 mg / kg, Dermal, Rat, Female NOAEL,  
Sub-acute 1000 mg / kg, Dermal, Rabbit

**Acute toxicity - inhalation**

**Remarks (inhalation LC<sub>50</sub>)** LC50> 5.53 mg / l, 4 hours, Vapor Rat NOAEL, Sub-chronic 0.22 mg / l, 4 weeks, Dust / Fog Rat  
NOAEL, Sub-chronic 0.15 mg / l, 13 weeks, Dust / Fog Rat

**Skin corrosion / irritation**

**Skin corrosion / irritation** It is not irritating.

**Serious eye damage / irritation**

**Serious eye damage / irritation** It is not irritating.

**Skin sensitization**

**Skin sensitization** Not sensitizing.

**Germ cell mutagenicity**

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

**Carcinogenicity**

**Carcinogenicity** 78 weeks, Negative., Dermal, Mouse

**Reproductive toxicity**

**Reproductive system toxicity  
fertility** Fertility - Negative., Oral, Rat

**Reproductive system toxicity  
developmental** 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<sub>50</sub>)** LD<sub>50</sub> 2600 mg / kg, Oral, Rat, Male

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub>> 3160 mg / kg, Dermal, Rabbit

**Acute toxicity - inhalation**

**Remarks (inhalation LC<sub>50</sub>)** LC50> 2 mg / l, 1 week, Vapor Rat, Male

**Skin corrosion / irritation**

**Skin corrosion / irritation** It irritates the skin.

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Serious eye damage / irritation

Serious eye damage / irritation Causes serious eye damage.

Respiratory sensitization

Respiratory tract sensitization Not sensitizing.

Skin sensitization

Skin sensitization Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Reproductive system 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 is available.

**Acute toxicity - fish** No other information is available.

**Acute toxicity - aquatic invertebrates** No other information is available.

**Acute toxicity - aquatic plants** No other information is available.

**Acute toxicity microorganisms** No other information is available.

**Acute toxicity - terrestrial organisms** No other information is available.

Chronic aquatic toxicity

Summary No other information is available.

**Chronic toxicity- in fish early life stage** No other information is available.

**Short term toxicity - embryo and early larval stages** No other information is available.

**Chronic toxicity- aquatic invertebrates** No other information is available.

**Toxicity to soil** No other information is available.

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**Toxicity to terrestrial plants Ecological** No other information is available.

**information on ingredients**

**1-decene homopolymer hydrogenated**

**Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours:> 1000 mg / l, Salmo gairdneri (Rainbow trout) LC<sub>50</sub>, 96 hours:> 750 mg / l, Kocabaş carp

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 190 mg / l, Daphnia Magna

**Acute toxicity - aquatic plants** NOELR, 72 hours: 1000 mg / l, Selenastrum capricornutum, Test Method: OECD 201

**Lube oils (petroleum), C15-30, hydrogen treated neutral oil base**

**Acute aquatic toxicity**

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours:> 100 mg / l, Pimephales promelas (Golyan Fish) EL50, 48

**Acute toxicity - aquatic invertebrates** hours:> 10000 mg / l, Water flea

**Chronic aquatic toxicity**

**Chronic toxicity- in fish early life stage** NOEL, 14 days: 1000 mg / l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity- aquatic invertebrates** NOEL, 72 hours:> = 100 mg / l, Algae NOEL, 21 days: 10 mg / l, Water flea

**Distillates (petroleum), hydrogen treated heavy paraffinic**

**Acute aquatic toxicity**

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours:> 100 mg / l, Pimephales promelas (Golyan Fish)  
NOEL, chronic, 14 days: 1000 mg / l, Oncorhynchus mykiss (rainbow trout)

**Acute toxicity - aquatic invertebrates** EL50, 48 hours:> 10000 mg / l, daphnia

**Chronic aquatic toxicity**

**Chronic toxicity- aquatic invertebrates** NOEL, 21 days: 10 mg / l, Water flea  
NOEL, 72 hours:> = 100 mg / l, Pseudokirchneriella subcapitata

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

**Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 4.5 mg / l, Oncorhynchus mykiss (Rainbow trout) EL50, 48 hours: 5.4

**Acute toxicity - aquatic invertebrates** mg / l, Water flea

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Dated December 13, 2014 and numbered 29204, "Ministry of Environment and Urbanization Regarding Hazardous Substances and Mixtures  
It has been arranged in accordance with the provisions of the "Regulation on Safety Data Sheets".

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**Acute toxicity - aquatic plants** Ebc50, 96h: 2.1 mg / l, Selenastrum capricornutum

**12.2. Persistence and degradability**

<b>Persistence and degradability</b>	No other information is available.
<b>Phototransformation</b>	No other information is available.
<b>Stability (hydrolysis)</b>	No other information is available.
<b>Biodegradation</b>	No other information is available.
<b>Biological oxygen demand</b>	No other information is available.
<b>Chemical oxygen demand</b>	No other information is available.

**Ecological information on ingredients**

**1-decene homopolymer hydrogenated**

<b>Biodegradation</b>	It is expected to be inherently biodegradable. (Supplier information)
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**Lube oils (petroleum), C15-30, hydrogen treated neutral oil base**

<b>Biodegradation</b>	OECD 301 F - 31: 28% days
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**Distillates (petroleum), hydrogen treated heavy paraffinic**

<b>Biodegradation</b>	OECD 301 F - 31%: 28 days
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**Zinc bis [O- (6-methylheptyl)] bis [O- (sec-butyl)] bis (dithiophosphate)**

<b>Biodegradation</b>	- 1,5%: 28 days
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**12.3. Bioaccumulative potential**

<b>Bioaccumulative potential</b>	No other information is available.
<b>Partition coefficient</b>	There is no specific test data available.

**Ecological information on ingredients**

**1-decene homopolymer hydrogenated**

<b>Bioaccumulative potential</b>	Bioaccumulation is not expected. (Supplier information)
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**Zinc bis [O- (6-methylheptyl)] bis [O- (sec-butyl)] bis (dithiophosphate)**

<b>Bioaccumulative potential</b>	log Pow: 0.9, at 23C
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**12.4. Mobility in soil**

<b>Mobility</b>	No other information is available.
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**Adsorption / desorption**                      No other information is available.  
**coefficient**

**Henry's law constant**                      No other information is available.

**Surface tension**                              No other information is available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB**                              No data available.  
**results of the assessment**

**12.6. Other adverse effects Other**

**adverse effects**                              No other information is available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods General**

**information**                              Waste generation should be minimized or avoided wherever possible. Wastes, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated appropriate containers and labeled according to their contents.

**Waste treatment methods**                      Collect waste and place it in suitable waste disposal containers and seal tightly. Dispose of waste in a licensed waste disposal facility in accordance with the requirements of the local Waste Disposal Authorities.

**Waste class**                              Waste code classification should be carried out according to the European Waste Catalog (EWC).

**SECTION 14: Transport information**

**General**                                      Not edited.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class (es)**

Not edited.

**14.4. Packing group**

Not applicable.

**14.5. Environmental damages**

**Environmentally harmful / marine pollutant**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

**MARPOL 73/78 Annex II and IBC** It is not relevant.

**pouring by code**

transportation

**SECTION 15: Regulatory information**

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

**National regulations** Republic of Turkey Ministry of Environment and Urbanization, Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013, No.

It has been arranged in accordance with the provisions of the "Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures of the Ministry of Environment and Urbanization of the Republic of Turkey" dated 13 December 2014 and numbered 29204.

**Guide** Safety Data Sheet for substances and preparations. The ingredients

**Health and environmental lists** with a risk of harm are listed.

**SECTION 16: Other information**

**In the safety data sheet  
used abbreviations and  
acronyms**

DMSO: Dimethyl sulfoxide

TC: 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: The concentration of the substance causing 50% (half) death in the test animal group. PBT: Persistent,  
Bioaccumulative and Toxic substance.

REACH: EU Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorization and Restriction of  
Chemicals.

vPvB: Very Persistent, Very Bioaccumulative.

MARPOL 73/78: International Convention for the Prevention of Pollution from Ships of 1973, as amended by the 1978  
Protocol.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC<sub>50</sub>: Effective Concentration of the substance causing 50% maximum response.

NOEC: No-Effect Concentration.

DMEL: Derived Minimal Effect Level.

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**Abbreviations and acronyms**

Acute Tox. = Acute toxicity Asp. Full.  
= Aspiration harm  
BHOT Single Mrz. = Specific Target Organ Toxicity - Single exposure  
BHOT Again. Mrz. = Specific Target Organ Toxicity - Repeated exposure Skin Corr. = Skin  
abrasion  
Skin Sensitive. = Skin sensitization Skin Irrit. =  
Skin irritation  
Eye Dam. = Eye damage Eye  
Irrit. = Eye irritation Kans. =  
Carcinogenicity  
Aquatic Acute = Harmful to the aquatic environment (acute) Aquatic  
Chronic = Harmful to the aquatic environment (chronic)

**General information**

Only trained personnel should use this material. This document contains important information for the safe storage, transport and use of this product. The information in this document should be brought to the attention of the person responsible for security issues in your organization. Material Safety Data Sheet Distribution: The information in this document should be made available to all persons who can handle this product. Uses and Restrictions: This product should not be used outside of the applications recommended in Section 1 without the prior recommendation of the supplier. This product is not used as a solvent or cleaning agent to set fire or to make it brighter and to clean the skin. Disclaimer: This information is based on our current knowledge and the product is described for the purpose of health, safety and environmental requirements only.

**Main literature references and sources of information**

This SDS is based on the information received from our raw material suppliers.

**Dated December 11, 2013 and 28848** EUH208: Calculation method., Supplier information

**According to the regulation numbered classification conditions**

**Education advice**

Untrained personnel should not be used.

**Revision comments by**

This is the first arrangement.

Sevda ŞAHAN Certified Safety Data Sheet Maker (Certificate No: GBF01.23.08; Date: 03.11.2018-03.11.2021)

**New date of issue**

23.11.2020

**How many regulations**

0

**Preparation date**

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**SDS No**

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**All of the hazard statements**

H304 Fatal if swallowed and enters respiratory tract. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318

Causes serious eye damage.

H361 Suspected of damaging the unborn child or damaging fertility if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic environment.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed or inhaled.

EUH208 C14-16-18 Contains Alkyl Phenol. May cause an allergic reaction.

This information relates only to a specific specific substance and should not be used in a composition or any process where the same substance is used in combination with other substances. This information is accurate and reliable as of the date specified, within the firm's high level knowledge and opinion. However, no warranty or representation can be made for its accuracy, reliability or completeness. It is the user's own responsibility to be satisfied that this information is suitable for his own use.