



**Part I**  
**SAFETY DATA SHEET**  
**MAXIMA K 5W40**

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 K 5W40  
Item number 11219

**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 safety data sheet supplier**

Supplier 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 National Poison Information Center (UZEM): 114 Mineral Oil Customer Service Tel: 0 (212) 329 19 19 (office hours)

National emergency phone Emergency Health Services: 112

**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 Aquatic Chronic 3 - H412

**2.2. Label elements**

Hazard Statements H412 Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

P401 Store in accordance with national regulations.  
P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves / protective clothing / eye protection / face protection. P261 Avoid breathing dust / fume / gas / mist / vapor / spray. P273 Avoid release to the environment.  
  
P501 Dispose of contents / container in accordance with national regulations.

**2.3. Other damages**

When the product is heated above 90°C (194°F), low amounts of CO, CO<sub>2</sub>, phosphorus oxides, metal oxides / oxides, hydrogen sulfide may be released from thermal decomposition.

**SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

<b>Distillates (petroleum), hydrotreated heavy paraffinic (Nota L, - R45, &lt;3% dimethyl sulfoxide)</b>	<b>40-60%</b>	
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 012119484627-25-0033
<b>Classification</b>	Asp. Full. 1- H304	
<b>lubricating oils (petroleum), C20-50, hydrotreated neutral oil based</b>	<b>20-25%</b>	
CAS number: 72623-87-1		
<b>Classification</b>	Not classified as harmful	
<b>Distilltes (petroleum), solvent-dewaxed heavy paraffinic</b>	<b>1-5%</b>	
CAS number: 64742-65-0	EC number: 265-169-7	
<b>Classification</b>	Not classified as harmful	
<b>Distillates (petroleum), hydrotreated heavy naphthenic</b>	<b>1-5%</b>	
CAS number: 64742-54-7	EC number: 265-157-1	
<b>Classification</b>	Not classified as harmful	



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<b>Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO</b>	<b>&lt;1%</b>
CAS number: -	EC number: 500-213-3
M factor (acute) = 1	
<b>Classification</b> Skin Irrit. 2- H315 Eye Dam. 1- H318 Aquatic Acute 1- H400	

The full text of the hazard statements is given in Section 16.

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

**Content notes** If the REACH registration numbers are not visible, the substance is either exempted from registration, the minimum volume threshold for registration cannot meet, the registration date has not yet come, or this information is registered information. The data are given in accordance with the latest Turkish and EU regulations. See Section 8 for occupational exposure limits.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General information</b>	Personal protective equipment should be used to minimize first aid. First aid personnel should wear appropriate protective equipment during rescue.
<b>Breathing</b>	Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably. Seek medical help. Artificial respiration and / or oxygen may be required.
<b>Swallowing</b>	Rinse mouth thoroughly with water. Remove any dentures. Provide fresh air, warmth and, if possible, sit comfortably upright and rest. If the material has been swallowed and the victim is conscious, give small amounts of water to drink. Stop vomiting if the victim feels unwell, as vomiting can be dangerous. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. If symptoms are severe or persistent, seek medical attention. Never give anything by mouth to an unconscious person. If the victim is unconscious, place in a recovery position and seek immediate medical attention. Keep airways clear. Loosen tight parts of clothing such as a collar, tie or belt.
<b>Skin contact</b>	If any discomfort occurs, seek medical advice immediately. Take off contaminated clothing and wash before reuse. In case of contact, the skin should be washed with plenty of water for at least 15 minutes.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Open and close the eyelids occasionally during the washing process.
<b>First aid workers preservation</b>	First aid personnel should wear appropriate protective equipment during rescue. Performing mouth-to-mouth respiration can be dangerous for first aid personnel.

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

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**General information** See Section 11 for additional information on health hazards. There are  
**Breathing** no specific symptoms known. There are no specific symptoms known.  
**Swallowing** There are no specific symptoms known. There are no specific  
**Skin contact** symptoms known.  
**Eye contact**

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

**Information to be given to the doctor** The effect of decomposition products that may be released during fire may be delayed. The exposed person may need to be under medical observation for 48 hours.  
**Special treatments** Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Fire extinguishers**

**Suitable extinguishing agents** Use a suitable extinguishing agent to extinguish the fire. Using water jet may be  
**Unsuitable extinguisher** inconvenient.  
**substances**

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

**Harmful combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen sulfide (H<sub>2</sub>S). Metal oxide (s). Nitrogen oxides. Phosphorus oxides.

**5.3. Advice for firefighters**

**During fire fighting** Clear the area. Without proper training or in any action involving personal danger  
**preservative to be taken** should not be found.  
**measures**

**For firefighters** Positive pressure self-contained breathing apparatus and suitable protective clothing  
**special protective equipment** get dressed.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Make sure procedures and emergency training are in place for on-site cleaning and disposal. Be aware that floors and other surfaces can be slippery in case of spillage.

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

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**For emergency responders**

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. In the event of a spill of heated substance, allow it to cool before handling by disposal methods.

**6.2. Environmental measures**

**Environmental measures**

Apply appropriate protective measures to prevent spilled material from entering water sources, watercourses, drains, soil. The product contains a substance that is very toxic to aquatic organisms. The release of large quantities to nature may cause environmental pollution. The environmental authority must be notified for all significant spills. If the product reaches the water or sewage system, inform the relevant authorities.

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

**Spill removal methods** Provide adequate ventilation. Remove all sources of flame from the environment. Small

For spills: Stop leak if not at risk. Remove sources of leak from area. 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 facility 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. Inform authorities in case of large spillages.

**6.4. Reference to other sections**

**Reference to other sections**

See Section 1 for emergency contact information. For personal protection see section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**

Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Do not swallow. It should not be flushed with the mouth. Avoid contact with skin, eyes and clothing. Do not breathe dust or mist. Avoid release to the environment. Keep only in the original packaging or in an alternative packaging that has been approved to be compatible with the material, keep containers closed when not in use. Product residues left in emptied containers can be dangerous. Do not reuse empty containers.

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**Advice on general occupational hygiene** Avoid breathing the vapor / mist of the product. Proper ventilation should be provided in the areas where the product is used. Do not eat, drink or smoke anything while using this product. Eye wash units and emergency shower facilities should be available when working with this product. Wash contaminated skin thoroughly after handling. Take off immediately all contaminated clothing and wash before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene procedures should be followed.

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

**Storage measures** Store in accordance with local regulations. Keep only in the original container in a cool, well-ventilated place. Protect from freezing and direct sunlight. Keep away from incompatible materials (see Chapter 10). Containers that have been opened must be handled carefully and kept upright to prevent leakage. Do not store in unlabeled containers. Store in a way that prevents release to the environment. NOTE: Exposure to extreme temperatures may increase the likelihood of H<sub>2</sub>S and mercaptan formation.

**Storage class** Not applicable. Note: This product contains a component with storage class 6.1 C.

**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 product data sheet.

**Directions for use**

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

**8.1. Control parameters**

**Occupational exposure limits**

Base Oil- respirable fraction: TWA: 5 mg / m<sup>3</sup> (Source: US. ACGIH Threshold Limit Values (02 2012)) Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Europe) TWA: 5 mg / m<sup>3</sup>, 8 hours.  
Distillates (petroleum) solvent-dewaxed heavy paraffinic: EU OEL (Europe) TWA: 5 mg / m<sup>3</sup>, 8 hours / STEL: 10 mg / m<sup>3</sup>, 15 minutes.

**Distillates (petroleum), hydrotreated heavy naphthenic**

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

**DNEL** 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic DNEL: 2.7 (8h) mg / m<sup>3</sup> (long term inhalation working systemic) DNEL: 5.4 (8h) mg / m<sup>3</sup> (long term inhalation working local) DNEL : 1.2 (24h) mg / m<sup>3</sup> (long term inhalation consumer local) DNEL: 0.74 (24h) mg / kg / day (long term oral consumer systemic) DNEL: 1.0 (8h) mg / kg (long term inhalation consumer local) period dermal working systemic)

**lubricating oils (petroleum), C20-50, hydrotreated neutral oil based (CAS: 72623-87-1)**

**DNEL** TWA (fog): 5 mg / m<sup>3</sup>, STEL (fog): 10 mg / m<sup>3</sup>, TWA<sub>EV</sub> (fog): 5 mg / m<sup>3</sup>, STEV (fog): 10 mg / m<sup>3</sup>, TWA (respirable fraction): 5 mg / m<sup>3</sup>

**8.2. Exposure controls**

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<b>Proper engineering controls</b>	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. There should be adequate general ventilation to control workers' exposure to air pollution.
<b>Personal protection</b>	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Keep away from foodstuffs, food and drink. Instantly remove contaminated and soaked clothing. Wash hands during breaks and after work. Store protective equipment separately.
<b>Eye / Face protection</b>	Under normal conditions, eye protection equipment is not required. Wear goggles with side lenses for safe work when there is a risk of splashing. If this material is heated, use chemical goggles, goggles or a face shield. (EN 166)
<b>Hand protection</b>	Protective gloves: Nitrile gloves should have a minimum thickness of 0.4 mm and the expected contact time is 480 minutes, depending on the frequency of contact during use. or less. This information does not replace conformity tests performed by the end user. Because the protection of the glove may vary depending on the usage conditions of the product. Follow good industrial hygiene rules.
<b>Other skin and body protection</b>	Avoid contact with skin. Personal protective equipment for the body should be selected depending on the work being done and this risk, and approved by a specialist before using this product.
<b>Health measures</b>	Good personal hygiene procedures should be followed. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. 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.
<b>Respiratory system preservation</b>	If there is potential to exceed exposure limits, wear appropriate respiratory protection. Select respirator according to suitability to ensure adequate worker safety for given working conditions and airborne contaminant level. Seek professional advice prior to gas mask selection and use.
<b>Thermal damages</b>	If there is danger of contact with hot product, all protective equipment suitable for use with high temperatures should be used. All personal protective equipment must be suitable for use at low temperatures if there is a risk of contact with refrigerated products.
<b>Environmental exposure controls</b>	Compliance of ventilation emissions and work process equipment with environmental protection legislation requirements should be checked. In some cases, technical changes to fume cleaners, filters or process equipment are required to reduce emissions to acceptable levels. Store in a confined area surrounded by a bund to prevent leakage into drains and / or water sources. Containers should be kept tightly sealed when not in use.

**SECTION 9: Physical and Chemical Properties**

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

	Amber-brown. Viscous liquid. Clear.
<b>Color</b>	Light brown.



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<b>Smell</b>	Characteristic.
<b>Odor threshold</b>	There is no suitable information.
<b>pH</b>	Scientifically unjustified.
<b>Melting point / freezing point</b>	There is no suitable information.
<b>Initial boiling point and boiling range</b>	There is no suitable information.
<b>Flash point</b>	~ 240 ° C Cleveland open cup. There is no
<b>Evaporation rate</b>	suitable information.
<b>Evaporation factor</b>	There is no suitable information.
<b>Flammability (solid, gas)</b>	There is no suitable information.
<b>Upper / Lower flammability or explosive limits</b>	There is no suitable information.
<b>Other flammability</b>	There is no suitable information.
<b>Vapor pressure</b>	There is no suitable information.
<b>Vapor density</b>	There is no suitable information.
<b>Relative density</b>	There is no suitable information.
<b>Volumetric density</b>	There is no suitable information.
<b>Resolution (s)</b>	It is insoluble in water.
<b>Partition coefficient</b>	There is no suitable information.
<b>Self ignition temperature</b>	There is no suitable information.
<b>Decomposition temperature</b>	There is no suitable information.
<b>Viscosity</b>	82.5 cSt @ 40 ° C 13.7 cSt @ 100 ° C No data
<b>Explosive properties</b>	available.
<b>Explosive under the influence of flame</b>	No data available.
<b>Oxidizing properties</b>	No data available.
<b>Descriptions</b>	The information given can be applied to the product as presented.
<b>9.2. Other informations</b>	
<b>Other informations</b>	Required information is not available.
<b>Refractive index</b>	There is no suitable information.
<b>Particle size</b>	There is no suitable information.

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<b>Molecular weight</b>	There is no suitable information.
<b>Volatility</b>	There is no suitable information.
<b>Saturation concentration</b>	There is no suitable information.
<b>Critical temperature</b>	There is no suitable information.
<b>Volatile organic compound</b>	There is no specific test data available.

**SECTION 10: Stability and reactivity**

**10.1. Reaction**

**Reaction** There is no specific test data on the available reactivity of this product or its ingredients.

**10.2. Chemical stability**

**Stability** This substance is considered stable under normal environmental conditions and under the prescribed storage and handling conditions.

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

**Conditions to avoid** Avoid exposure to high heat or direct sunlight. Heat, flame and other  
Avoid sources of ignition.

**10.5. Incompatible materials Materials to avoid** Strong oxidizing agents. Strong reducing agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Mercaptans. Hydrogen sulfide (H<sub>2</sub>S). Sulphurous gases (SO<sub>x</sub>). Smoke, carbon monoxide, carbon dioxide, irritating vapors  
and other incomplete combustion products may be released as a result of thermal decomposition or combustion.  
Methacrylates.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects Toxic**

**effects** The information given is based on the data of the components and similar products.

**Other health effects** There is no suitable information.

**Acute toxicity - oral Summary**

May cause irritation of the gastrointestinal tract.

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

lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based: LD<sub>50</sub> 5000 mg / kg, Oral, Rat 64742-54-7  
distillates (petroleum), hydrotreated heavy paraffinic: LD<sub>50</sub> 5000 mg / kg, Oral, Rat LOAEL 125 mg / kg / day, Oral,  
Rat NOAEL ≥150 mg / kg / day, Oral, Rat NOEL ≥100 (72h) mg / l, Oral, pseudokirchneriella subcapitata NOEC>  
100 mg / l, Oral, Fish NOAEL  
> 980 mg / m<sup>3</sup>, Oral, Rat Distillates (petroleum), solvent-dewaxed heavy paraffinic: LD<sub>50</sub>  
> 5000 mg / kg, Oral, Rat bis (nonylphenyl) amine: LD<sub>50</sub>> 5000 mg / kg, Oral, Rat phosphorodithioic acid, mixed O,  
O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: LD<sub>50</sub> 3100 mg / kg, Oral, Rat phenol, dodecyl-, sulfurized,  
carbonates, calcium salts, overbased: LD<sub>50</sub>  
> 5000 mg / kg, Oral, Rat long-chain olefin sulphides: LD<sub>50</sub>> 2000 mg / kg, Oral, Rat alcohols, C12-14,  
ethoxylated (even numbered) 1-2.5EO: LD<sub>50</sub>> 2000 mg / kg, Oral, Rat phenol, (tetrapropenyl) derivatives: LD<sub>50</sub>  
2200 mg / kg, Oral, Rat

**Acute toxicity - dermal**

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

Distillates (petroleum), hydrotreated heavy paraffinic: LD<sub>50</sub>> 5000 mg / kg, Dermal, Rabbit Distillates (petroleum),  
solvent-dewaxed heavy paraffinic: LD<sub>50</sub>> 5000 mg / kg, Dermal, Rabbit Phosphorodithioic acid, mixed O, O-bis (1,  
3-dimethylbutyl and iso-Pr) esters, zinc salts: LD<sub>50</sub>  
> 2002 mg / kg, Dermal, Rat Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: LD<sub>50</sub>  
> 2000 mg / kg, Dermal, Rabbit Phenol, (tetrapropenyl) derivatives: LD<sub>50</sub> 15000 mg / kg, Dermal, Rabbit

**Acute toxicity - inhalation**

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

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based: LC50> 5.2 (exp.time 4h) dust / mist mg / l,  
Inhalation, Rat Distillates (petroleum), hydrotreated heavy paraffinic: LC50  
> 5.53 (4h) (dusts and mist) mg / l, Inhalation, Rat Distillates (petroleum), solvent-dewaxed heavy paraffinic: LC50>  
5.53 (4h) (vapor) mg / l, Inhalation, Rat Phosphorodithioic acid, mixed  
O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: LC50> 2.3 (4h) (vapor) mg / l, Inhalation, Rat Alcohols,  
C12-14, ethoxylated (even numbered) 1- 2.5EO: LC50> 1.6 (4h) (vapor) mg / l, Inhalation, Rat

**Skin corrosion / irritation**

**Skin corrosion / irritation**

It is not classified as a primary skin irritant. Prolonged or repeated contact may cause skin irritation, redness  
and dermatitis. Prolonged skin contact may cause temporary irritation.

**Serious eye damage / irritation**

**Serious eye damage / irritation**

Based on available data, the classification criteria are not met. Vapors may cause irritation.

**Respiratory sensitization**

**Respiratory tract sensitization**

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

**Skin sensitization**

**Skin sensitization**

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

**Germ cell mutagenicity**

**Genotoxicity - in vitro**

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

**Genotoxicity - in vivo**

available data, the classification criteria are not met.

**Carcinogenicity**

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**Carcinogenicity** There is no specific test data available.

**Reproductive toxicity**

**Reproductive system toxicity  
fertility** There is no specific test data available.

**Reproductive system toxicity  
developmental** Required information is not available.

**Specific target organ toxicity - single exposure STOT -**

**single exposure** There is no specific test data available.

**Specific target organ toxicity - repeated exposure STOT -**

**repeated exposure** There is no specific test data available.

**Aspiration hazard**

**Aspiration hazard** May be fatal if swallowed and if it enters the respiratory tract.

**Toxicokinetics** Required information is not available.

**General information** The information given is based on the data of the components and similar products. May be

**Breathing** harmful if inhaled.

**Swallowing** Aspiration hazard if swallowed.

**Contact with skin** The product is not expected to have an abrasion / irritation effect due to skin contact. Harmful effects may be observed as a result of prolonged and high dosage contact.

**Eye contact** The product is not classified as an eye irritant. The product contains components that can cause eye irritation / damage.

**Acute and chronic health hazards** There is not enough data.

**Contact ways** Ingestion Inhalation Skin and / or eye contact.

**Target organs** There are no known specific target organs.

**Medical symptoms** There is not enough information.

**Medical opinions** There is not enough information.

**Toxicological information on ingredients**

**lubricating oils (petroleum), C20-50, hydrotreated neutral oil based**

**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, Rabbit

**Acute toxicity - inhalation**

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<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 5.2 mg / l, Inhalation, Rat Exposure time: 4 hrs. Test atmosphere: dust / fog
	<u><b>Distillates (petroleum), hydrotreated heavy naphthenic</b></u>
<b>Acute toxicity - oral</b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> > 5000 mg / kg, Oral, Rat
<b>Acute toxicity - dermal</b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> > 5000 mg / kg, Dermal, Rabbit
<b>Acute toxicity - inhalation Species</b>	
	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50> 5.53 mg / l, Inhalation, Rat
<b>ATE inhalation (dust / mist mg / l) Skin</b>	5,53
<b>corrosion / irritation</b>	
<b>Summary</b>	It is not irritating. Supplier information.
<b>Serious eye damage / irritation</b>	
<b>Summary</b>	It is not irritating. Supplier information.
<b>Skin sensitization</b>	
<b>Summary</b>	Not sensitizing. Supplier information.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. Chromosome disorder: Negative. Gene mutation: Negative. Supplier information.
<b>Genotoxicity - in vivo</b>	Micronucleus Test: Negative. Supplier information.
<b>Carcinogenicity</b>	
<b>Summary</b>	Based on available data, the classification criteria are not met. Supplier information.
<b>Reproductive toxicity</b>	
<b>Reproductive system toxicity fertility</b>	Based on available data, the classification criteria are not met. Supplier information.
<b>Reproductive system toxicity developmental</b>	Based on available data, the classification criteria are not met. Supplier information.
	<u><b>bis (nonylphenyl) amine</b></u>
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity - in vitro</b>	This material did not show mutagenic or genotoxic potential in laboratory tests. (Supplier information)

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**12.1. Toxicity**

**Toxicity**

Long-lasting, harmful effect in the aquatic environment.

**Acute aquatic toxicity**

**Acute toxicity - fish**

Distillates (petroleum), hydrotreated heavy paraffinic:

LL<sub>50</sub>, 48 hours:> 100 mg / l, Pimephales promelas (Golyan Fish) Distillates

(petroleum), solvent-dewaxed heavy paraffinic:

LL<sub>50</sub>, 96 hours:> 100 mg / l, Pimephales promelas (Golyan Fish) Bis (nonylphenyl)

amine:

LL<sub>50</sub>, 96 hours:> 100 mg / l, Danio rerio (Zebrafish)

Phosphorodithioic acid, mixed O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: LL<sub>50</sub>, 96 hours: 4.5 mg / l, Oncorhynchus mykiss (Rainbow trout) Phenol, dodecyl-sulfurized, carbonates, calcium salts, overbased:

LL<sub>50</sub>, 96 hours:> 1000 mg / l, Pimephales promelas Long-chain olefin sulphides:

LL<sub>50</sub>, 96 hours:> 100 mg / l, Oncorhynchus mykiss (Rainbow trout) Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: LC<sub>50</sub>, 96 hours: 0.876 mg / l, Danio rerio (Zebrafish)

Phenol, (tetrapropenyl) derivatives:

LL<sub>50</sub>, 96 hours: 40 mg / l, Pimephales promelas (Golyan Fish) 64742-54-7

Distillates (petroleum), hydrotreated heavy paraffinic: LL<sub>50</sub>,> 100 mg / l, Fish

**Acute toxicity - aquatic invertebrates**

Distillates (petroleum), hydrotreated heavy paraffinic: EL50, 48 hours:> 10000 mg / l, Water flea

Distillates (petroleum), solvent-dewaxed heavy paraffinic: EL50, 48 hours:> 10000 mg / l, Water flea

Bis (nonylphenyl) amine:

EL50, 48 hours:> 100 mg / l, daphnia

Phosphorodithioic acid, mixed O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: EL50, 48 hours: 23 mg / l, Water flea

Phenol, dodecyl-sulfurized, carbonates, calcium salts, overbased: EL50, 48 hours:> 1000 mg / l, Water flea

Long-chain olefin sulphides:

EL50, 48 hours:> 100 mg / l, daphnia

Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: EL50, 48 hours: 0.39 mg / l, Water flea

Phenol, (tetrapropenyl) derivatives: EL50, 48

hours: 0.037 mg / l, Water flea

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic: EL50, 24 hours:> 10000 mg / l, Water flea (OECD 202)

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**Acute toxicity - aquatic plants**

Bis (nonylphenyl) amine:  
EL50, 72 hours:> 100 mg / l, Desmodemus subspicatus  
Phosphorodithioic acid, mixed O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: EL50, 72 hours: 24 mg / l, Desmodemus subspicatus  
Phenol, dodecyl-sulfurized, carbonates, calcium salts, overbased: EL50, 96 hours:> 500 mg / l, Pseudokirchneriella subcapitata Long-chain olefin sulphides:  
  
EL50, 72 hours:> 100 mg / l, Pseudokirchneriella subcapitata Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: EL50, 72 hours: 0.41 mg / l, Pseudokirchneriella subcapitata Phenol, (tetrapropenyl) derivatives:  
  
EL50, 72 hours: 0.36 mg / l, Desmodemus subspicatus 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic: LL<sub>50</sub>,> 100 mg / l, Algae

**Acute toxicity microorganisms**

Bis (nonylphenyl) amine:  
IC<sub>50</sub>, 3 hours:> 100 mg / l, Micro-organisms  
Phosphorodithioic acid, mixed O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: EL50, 3 hours:> 10000 mg / l, Micro-organisms  
Phenol, dodecyl-sulfurized, carbonates, calcium salts, overbased: EL50, 3 hours:> 10000 mg / l, Micro-organisms  
Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: EL50, 5 hours:> 2 mg / l, Micro-organisms  
Phenol, (tetrapropenyl) derivatives:  
EL50, 3 hours:> 1000 mg / l, Micro-organisms

**Acute toxicity - terrestrial organisms** Required information is not available.

**Chronic aquatic toxicity**

**Chronic toxicity- in fish early life stage**

Required information is not available.

**Short term toxicity - embryo and early larval stages** Required information is not available.

**Chronic toxicity- aquatic invertebrates**

Distillates (petroleum), hydrotreated heavy paraffinic: NOEL, 21 days: 10 mg / l, Water flea  
Distillates (petroleum), solvent-dewaxed heavy paraffinic: NOEL, 21 days: 10 mg / l, Water flea  
Phosphorodithioic acid, mixed O, O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts: NOEL, 21 days: 0.4 mg / l, Water flea  
Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: NOEC, 21 days: 0.77 mg / l, Water flea  
Phenol, (tetrapropenyl) derivatives: NOEL, 21 days: 0.0037 mg / l, Water flea

**12.2. Persistence and degradability**

**Persistence and degradability**

There is no information on the degradability of the product.

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**Phototransformation** There is no specific test data available. There is

**Stability (hydrolysis)** no specific test data available. There is no

**Biodegradation** specific test data available. There is no specific

**Biological oxygen demand** test data available. There is no specific test data

**Chemical oxygen demand** available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** There is no specific test data available. There is

**Partition coefficient** no suitable information.

**12.4. Mobility in soil**

**Mobility** No data available.

**Adsorption / desorption coefficient** There is no specific test data available.

**Henry's law constant** There is no specific test data available. There is

**Surface tension** no specific test data available.

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

**PBT and vPvB results of the assessment** Not applicable.

**12.6. Other adverse effects Other**

**adverse effects** May cause little damage to water. Dangerous for the environment.

**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. Dispose of waste in a licensed waste disposal facility in accordance with the requirements of the local Waste Disposal Authorities.

**Waste treatment methods** Avoid spillage or runoff entering drains, sewers or watercourses. The disposal of this product, process solutions, residues and by-products must always comply with environmental protection requirements, waste disposal legislation and requirements of local authorities. Reuse or recycle products wherever possible. Dispose of contents / container according to national regulations. During the handling of wastes, the safety precautions applied for the handling of the product should be taken into account.

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

**SECTION 14: Transport information**



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**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID).

**Road shipment notes** Avoid release to the environment.

**Railway shipment notes** Not classified.

**Sea shipment notes Air** Do not leave it to the environment.

**shipment notes** Not classified.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

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

There is no required transport warning sign.

**Shipping labels**

There is no required transport warning sign.

**14.4. Packing group**

Not applicable.

**14.5. Environmental damages**

**14.6. Special precautions for user**

Make sure that the people who ship the product know what to do in the event of an accident or spill. Always transport in closed containers upright and securely.

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

**MARPOL 73/78 Annex II and IBC** Not applicable.

**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.  
Republic of Turkey Ministry of Environment and Urbanization Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures  
TR Ministry of Environment and Urbanization Guide to Safe Storage of Chemicals  
Republic of Turkey Ministry of Labor and Social Security, Regulation on the Use of Personal Protective Equipment at Workplaces, dated 2 July 2013 and numbered 28695

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<b>EU legislation</b>	Republic of Turkey Ministry of Labor and Social Security, Regulation on Health and Safety Measures in Working with Chemicals, dated 12 August 2013 and numbered 28733  <a href="https://echa.europa.eu">https://echa.europa.eu</a>
<b>Guide</b>	Safety Data Sheet for substances and preparations.
<b>Permits (KKDIK regulation numbered 30105, Annex-14)</b>	There is no known specific registration for this product.
<b>Restrictions (No. 30105 KKDIK regulation, Annex-17)</b>	There are no known restrictions on the use of this product.
<b>Chemical safety evaluation of</b>	There is no Chemical Safety Assessment practice.

**SECTION 16: Other information**

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

EU: European Union DMSO:  
Dimethyl sulfoxide  
PPE: Personal protective equipment  
TC: Republic of Turkey  
TWA: Workplace exposure limits UZEM: National  
Poison Information Center  
ADR: European Agreement on the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service.  
DNEL: Derived no-effect level. GHS: Global Harmonized System.  
IATA: International Air Transport Association.  
ICAO: Technical Specifications for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods.  
LC50: The concentration of the substance causing 50% (half) death in the test animal group.  
LD50: Dose of substance (Median Lethal Dose) that caused 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.  
RID: European Agreement Relating to the International Carriage of Dangerous Goods by Rail. 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.  
NOAEL: No Side Effects Level. NOEC: No-Effect Concentration.

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**Abbreviations and acronyms**

Asp. Full. = Aspiration hazard Skin Irrit.  
= Skin irritation  
Aquatic Chronic = Harmful to the aquatic environment (chronic) Eye Dam.  
= Eye damage  
Skin Corr. = Skin abrasion  
Repr. Fog. Full. = Reproductive System Toxicity Aquatic Acute =  
Harmful to the aquatic environment (acute)

**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. 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. Material Safety Data Sheet Distribution: The information in this document should be made available to all persons who can handle this product. Disclaimer: This information is based on our current knowledge and the product is described for the purpose of health, safety and environmental requirements only.

**Dated December 11, 2013 and 28848** Aquatic Chronic 3- H412: Calculation method.

**According to the regulation numbered  
classification conditions**

**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**

13.02.2019

**How many regulations**

0

**Preparation date**

13.02.2019

**SDS No**

20454

**All of the hazard statements**

H304 Fatal if swallowed and enters respiratory tract. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.  
  
H318 Causes serious eye damage.  
H360 May cause damage to the unborn child or damage fertility if swallowed. H400 Very toxic to aquatic environment.  
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 environment.

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.