SAFETY DATA SHEET
MAXIMA K 5W40

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 K 5W40

Product number 11219

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

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

1.4. Emergency telephone number

Emergency telephone Madeni Yağ Müşteri Hizmetleri Tel: 0 (212) 329 19 19 (mesai saatleri)

National emergency telephone number Emergency Medical Services: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

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

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/ vapours/ spray.
P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

MAXIMA K 5W40

When the product is heated above 90C (194F), a low level of CO, CO2, phosphorus oxides, metal oxide / oxides, hydrogen sulfide may be released by thermal decomposition.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic (Nota L, -R45,<3% dimethyl sulfoxide) **40-60%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0033

Classification
Asp. Tox. 1 - H304

lubricating oils (petroleum), C20-50, hydrotreated neutral oil based **20-25%**

CAS number: 72623-87-1

Classification
Not Classified

Distilltes (petroleum), solvent-dewaxed heavy paraffinic **1-5%**

CAS number: 64742-65-0 EC number: 265-169-7

Classification
Not Classified

Distillates (petroleum), hydrotreated heavy naphthenic **1-5%**

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

Classification
Not Classified

Phosphorodithioic acid,mixed O,O-bis (1,3-dimethylbutyl and iso-Pr)esters,zinc salts **1-5%**

CAS number: 84605-29-8 EC number: 283-392-8

Classification
Skin Irrit. 2 - H315
Aquatic Chronic 2 - H411

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

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

Classification
Aquatic Chronic 4 - H413

MAXIMA K 5W40

long-chain olefin sulphides	**<1%**
CAS number: —	
Classification	
Aquatic Chronic 4 - H413	

phenol-dodecyl-,sulfurized,carbonates,calcium salts,overbased	**<1%**
CAS number: —	EC number: 272-234-3
Classification	
Aquatic Chronic 4 - H413	

phenol, (tetrapropenyl) derivatives	**<1%**
CAS number: 74499-35-7	EC number: 616-100-8
M factor (Acute) = 10	M factor (Chronic) = 10
Classification	
Skin Corr. 1 - H314 Eye Dam. 1 - H318 Repr. 1B - H360 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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

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 If REACH registration numbers cannot be seen, the item is exempt from registering, minimum volume threshold for recording does not meet,
the registration date has not yet arrived, or this information has been registered. The data complies the last T.C. and E.U. regulations. See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Personal protective equipment should be used to minimize first-aid treatment. First aid personnel should wear appropriate protective equipment during any rescue.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Artificial respiration and / or oxygen may be required.

MAXIMA K 5W40

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. If the material is swallowed and the victim is conscious, give low amounts of water to drink. Stop if the affected person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist. Never give anything by mouth to an unconscious person. If the victim is unconscious, place them in the recovery position and seek immediate medical attention. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact In case of any discomfort, seek medical advice immediately. Take off contaminated clothing and wash it before reuse. In case of contact, the skin should be washed with plenty of water for at least 15 minutes.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally open and close eyelids during the wash process.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

General information See Section 11 for additional information on health hazards.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact No specific symptoms known.

Eye contact No specific symptoms known.

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

Notes for the doctor The effect of decomposition products that may be released during the fire may be delayed. The exposed person may need to be kept under medical observation for 48 hours.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use a suitable extinguishing agent to extinguish the fire.

Unsuitable extinguishing media Using a water jet can be inconvenient.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide (CO). Hydrogen sulphide (H2S). Metal oxide(s). Oxides of nitrogen. Oxides of phosphorus.

5.3. Advice for firefighters

Protective actions during firefighting Evacuate area. No action shall be taken without appropriate training or involving any personal risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure procedures and training for emergency decontamination and disposal are in place. Take care as floors and other surfaces may become slippery.

MAXIMA K 5W40

For non-emergency personnel Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

For emergency responders 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 Apply protective methods to prevent spilled material from entering into water sources, water channels, sewers and soil. The product contains a substance which is very toxic to aquatic organisms. May be harmful to the environment if released in large quantities. Environmental manager must be informed of all major spillages. Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Remove all sources of ignition. 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. Inform authorities if large amounts are involved.

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 described in Section 8 of this safety data sheet. Do not ingest. Avoid siphonage by mouth. Avoid contact with skin, eyes and clothing. Do not breathe dust or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.

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

7.2. Conditions for safe storage, including any incompatibilities

MAXIMA K 5W40

Storage precautions Store in accordance with local regulations. Keep only in the original container in a cool, well-ventilated place. Protect from freezing and direct sunlight. Store away from incompatible materials (see Section 10). Containers that have been opened must be carefully released and kept upright to prevent leakage. Do not store in unlabeled containers. Avoid environmental contamination. NOTE: Exposure to elevated temperatures may increase the possibility of H2S and mercaptan generation.

Storage class Not applicable. Note: This product contains a component with a storage class of 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.

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

Mineral Oil- inhalable fraction: TWA : 5 mg/m3 (Source:US. ACGIH Threshold Limit Values (02 2012))
Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours.
Distillates (petroleum) solvent-dewaxed heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours/ STEL: 10 mg/m3, 15 minutes.

Distillates (petroleum), hydrotreated heavy naphthenic

TLV/TWA
5 mg/m3

DNEL 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic
DNEL: 2,7 (8h) mg/m3 (long trm inhalativ worker systemic)
DNEL: 5,4 (8h) mg/m3 (long-term inhalativ worker local)
DNEL: 1,2 (24h) mg/m3 (long-term inhalativ comsumer local)
DNEL: 0,74 (24h) mg/kg/d (long-term oral consumer systemic)
DNEL: 1,0 (8h) mg/kg (long-term dermal worker systemic)

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

DNEL TWA (sis): 5 mg/m3 , STEL (sis): 10 mg/m3 , TWAEV (sis): 5 mg/m3 , STEV (sis): 10 mg/m3 , TWA (solunabilir fraksiyon): 5 mg/m3

8.2. Exposure controls

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. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Personal protection Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Keep away from foodstuffs, beverages and foods. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Store protective clothing separately.

Eye/face protection Normally, eye protection equipment is not required.Wear side goggles for safe operation when a risk of splashing is possible.If this material is heated, use chemical goggles, protective goggles or face shield.(EN 166)

MAXIMA K 5W40

Hand protection	Chemical resistant gloves: Nitril gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes orless when if frequent contact with the product. This information does not replace suitability tests by the end user since glove protection varis depending on the conditions under which the product is used. Use good industrial hygiene practices.
Other skin and body protection	Avoid contact with skin. Personal protective equipment for the body should be selected based on the task being performed and the risk involved and should be approved by a specialist before handling this product.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.
Respiratory protection	Use appropriate respiratory protection if there is the potential to exceed the exposure limits. Select respirator based on suitability to provide adequate worker protection for given working conditions and level of airborne contaminant. Seek professional advice prior to respirator selection and use.
Thermal hazards	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures. If there is a risk of contact with refrigerated product, all protective equipment should be suitable for use with low 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. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep container 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.
Colour	Light brown.
Odour	Characteristic.
Odour threshold	No information available.
pH	Scientifically unjustified.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	~ 240°C Cleveland open cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.

MAXIMA K 5W40

Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	Insoluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	82,5 cSt @ 40°C 13,7 cSt @ 100°C
Explosive properties	No information available.
Explosive under the influence of a flame	No suitable data is available.
Oxidising properties	No data available.
Comments	The information given can be applied to the product as presented.

9.2. Other information

Other information	No information required.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No specific test data are available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability This material is considered stable under normal environmental conditions and in the conditions of storage and handling foreseen.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reaction under normal conditions of storage and use.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

MAXIMA K 5W40

Hazardous decomposition products Mercaptans. Hydrogen sulphide (H2S). Sulphurous gases (SOx). Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide,irritating vapors and other products of incomplete combustion. Methacrylates.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Other health effects No relevant information available.

Acute toxicity - oral

Summary May cause irritation of the gastrointestinal tract.

Notes (oral LD_{50}) lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based: LD_{50} 5000 mg/kg, Oral, Rat 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic: LD_{50} 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, Fishes NOAEL >980 mg/m^3, Oral, Rat Distillates (petroleum), solvent-dewaxed heavy paraffinic: LD_{50} >5000 mg/kg, Oral, Rat bis(nonylphenyl)amine: LD_{50} >5000 mg/kg, Oral, Rat phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts: LD_{50} 3100 mg/kg, Oral, Rat phenol, dodecyl-,sulfurized,carbonates,calcium salts,overbased: LD_{50} >5000 mg/kg, Oral, Rat long-chain olefin sulphides: LD_{50} >2000 mg/kg, Oral, Rat alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO: LD_{50} >2000 mg/kg, Oral, Rat phenol, (tetrapropenyl) derivatives: LD_{50} 2200 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC_{50}) 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 Not classified as a primary skin irritant. Prolonged or repeated contact with skin may cause 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 sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation 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.

MAXIMA K 5W40

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity - development No information is required.

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No specific test data are available.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and penetrates into the respiratory tract.

Toxicokinetics No information is required.

General information Information given is based on data of the components and of similar products.

Inhalation May be harmful if inhaled.

Ingestion Aspiration hazard if swallowed.

Skin contact In case of skin contact damage / irritation effect is not expected. Prolonged and high doses may cause harmful effects as a result of contact.

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

Acute and chronic health hazards There is not enough data.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.

Medical symptoms No specific tes data are available.

Medical considerations No specific tes data are available.

Toxicological information on ingredients.

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

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 5.2 mg/l, Inhalation, Rat Maruziyet süresi: 4 sa. Test atmosferi: toz/sis

Distillates (petroleum), hydrotreated heavy naphthenic

Acute toxicity - oral

MAXIMA K 5W40

Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >5000 mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Species	Rat
Notes (inhalation LC_{50})	LC50 >5.53 mg/l, Inhalation, Rat
ATE inhalation (dusts/mists mg/l)	5.53
Skin corrosion/irritation	
Summary	Not irritating. Supplier's information.
Serious eye damage/irritation	
Summary	Not irritating. Supplier's information.
Skin sensitisation	
Summary	Not sensitising. Supplier's information.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative. Supplier's information.
Genotoxicity - in vivo	Micronucleus Test: Negative. Supplier's information.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met. Supplier's information.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met. Supplier's information.
Reproductive toxicity - development	Based on available data the classification criteria are not met. Supplier's information.

bis(nonylphenyl)amine

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

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

MAXIMA K 5W40

Acute toxicity - fish

Distillates (petroleum), hydrotreated heavy paraffinic :
LL_{50}, 48 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Distillates (petroleum), solvent-dewaxed heavy praffinic :
LL_{50}, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Bis(nonylphenyl)amine:
LL_{50}, 96 hours: >100 mg/l, Danio rerio (Zebrafish)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts :
LL_{50}, 96 hours: 4.5 mg/l, Oncorhynchus mykiss (Rainbow trout)
Phenol,dodecyl-sulfurized,carbonates,calcium salts,overbased :
LL_{50}, 96 hours: >1000 mg/l, Pimephales promelas (Fat-head Minnow)
Long-chain olefin sulphides :
LL_{50}, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO :
LC_{50}, 96 hours: 0.876 mg/l, Danio rerio (Zebrafish)
Phenol, (tetrapropenyl) derivatives :
LL_{50}, 96 hours: 40 mg/l, Pimephales promelas (Fat-head Minnow)
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic :
LL_{50}, : >100 mg/l, Fish

Acute toxicity - aquatic invertebrates

Distillates (petroleum), hydrotreated heavy paraffinic :
EL50, 48 hours: >10000 mg/l, Daphnia magna
Distillates (petroleum), solvent-dewaxed heavy praffinic :
EL50, 48 hours: >10000 mg/l, Daphnia magna
Bis(nonylphenyl)amine:
EL50, 48 hours: >100 mg/l, Daphnia magna
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts :
EL50, 48 hours: 23 mg/l, Daphnia magna
Phenol,dodecyl-sulfurized,carbonates,calcium salts,overbased :
EL50, 48 hours: >1000 mg/l, Daphnia magna
Long-chain olefin sulphides :
EL50, 48 hours: >100 mg/l, Daphnia magna
Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO :
EL50, 48 hours: 0.39 mg/l, Daphnia magna
Phenol, (tetrapropenyl) derivatives :
EL50, 48 hours: 0.037 mg/l, Daphnia magna
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic :
EL50, 24 hours: >10000 mg/l, Daphnia magna
(OECD 202)

Acute toxicity - aquatic plants

Bis(nonylphenyl)amine:
EL50, 72 hours: >100 mg/l, Desmodesmus subspicatus
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts :
EL50, 72 hours: 24 mg/l, Desmodesmus 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, Desmodesmus subspicatus
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic :
LL_{50}, : >100 mg/l, Algae

MAXIMA K 5W40

Acute toxicity - microorganisms	Bis(nonylphenyl)amine: IC_{50}, 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	No information required.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	No information required.
Short term toxicity - embryo and sac fry stages	No information required.
Chronic toxicity - aquatic invertebrates	Distillates (petroleum), hydrotreated heavy paraffinic : NOEL, 21 days: 10 mg/l, Daphnia magna Distillates (petroleum), solvent-dewaxed heavy praffinic : NOEL, 21 days: 10 mg/l, Daphnia magna Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts : NOEL, 21 days: 0.4 mg/l, Daphnia magna Alcohols, C12-14, ethoxylated (even numbered) 1-2.5EO : NOEC, 21 days: 0.77 mg/l, Daphnia magna Phenol, (tetrapropenyl) derivatives : NOEL, 21 days: 0.0037 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability	There are no data on the degradability of this product.
Phototransformation	No specific test data are available.
Stability (hydrolysis)	No specific test data are available.
Biodegradation	No specific test data are available.
Biological oxygen demand	No specific test data are available.
Chemical oxygen demand	No specific test data are available.

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

Mobility	No data available.
Adsorption/desorption coefficient	No specific test data are available.
Henry's law constant	No specific test data are available.
Surface tension	No specific test data are available.

12.5. Results of PBT and vPvB assessment

MAXIMA K 5W40

Results of PBT and vPvB assessment Not applicable.

12.6. Other adverse effects

Other adverse effects May cause minor damage to water. Dangerous for the environment.

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. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Avoid the spillage or runoff entering drains, sewers or watercourses. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Reuse or recycle products wherever possible. Dispose of contents/container in accordance with national regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

Waste class The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

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

Road transport notes Avoid releasing into the environment.

Rail transport notes Not classified.

Sea transport notes Do not release into the environment.

Air transport notes Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

Transport labels
No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage. Always transport in closed containers that are upright and secure.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

MAXIMA K 5W40

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization. T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous Substances and Mixtures T. C. Ministry of Environment and Urbanization Guidelines for Safe Storage of Chemicals T. C. The Ministry of Labor and Social Security, Regulation on the Use of Personal Protective Equipment at Workplaces No. 28695 dated July 2, 2013
EU legislation	T. C. The Ministry of Labor and Social Security, Implementing Regulation on Health and Safety Measures for Working with Chemical Substances, numbered 28733 dated August 12, 2013 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). https://echa.europa.eu
Guidance	Safety Data Sheets for Substances and Preparations.
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

MAXIMA K 5W40

Abbreviations and acronyms used in the safety data sheet

E.U. : European union
DMSO: Dimethyl sulfoxide
KKE: Personal protective aquipment
T.C. : Republic of Turkey
TWA: Workplace exposure limits
UZEM: National Poison Information Center
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
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.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.

Classification abbreviations and acronyms

Asp. Tox. = Aspiration hazard
Skin Irrit. = Skin irritation
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Skin Corr. = Skin corrosion
Repr. = Reproductive toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)

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. 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. MSDS Distribution : The information in this document should be made available to all who may handle the product. 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.

Classification procedures according to Regulation (EC) 1272/2008

Aquatic Chronic 3 - H412: Calculation method.

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

13/02/2019

MAXIMA K 5W40

Revision	0
Supersedes date	13/02/2019
SDS number	20454
Hazard statements in full	H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H360 May damage fertility or the unborn child if swallowed. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.