



SAFETY DATA SHEET MORTECH OIL 460

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 MORTECH OIL 460

Product number 21460

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

Identified uses Industrial oil

Uses advised against Use only for intended 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/ İstanbul
Tel: +90 850 339 1919
Fax: +90 216 275 3854
madeniyag@petrolofisi.com.tr

Contact person Customer Services: madeniyag@petrolofisi.com.tr

1.4. Emergency telephone number

Emergency telephone Madeni Yağ Customer Services: 0850 339 1919 (working hours)

National emergency telephone number National Poison Consultance Center: 114 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 Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P401 Store in accordance with international regulations.
P501 Dispose of contents/ container in accordance with national regulations.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Distillates (petroleum), hydrotreated heavy paraffinic	10-20%
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0033
Classification	
Not Classified	
2,6-di-terciyer-bütülfenol	<1%
CAS number: 128-39-2	EC number: 204-884-0
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Skin Irrit. 2 - H315	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	<1%
CAS number: 64742-94-5	EC number: 922-153-0
Classification	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
N-1-naftilanilin	<1%
CAS number: 90-30-2	EC number: 201-983-0
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Acute Tox. 4 - H302	
Skin Sens. 1B - H317	
STOT RE 2 - H373	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
Bis(nonilfenil)amin	<1%
CAS number: 36878-20-3	EC number: 253-249-4
Classification	
Aquatic Chronic 4 - H413	
Long-chain alkenyl amide	<1%
CAS number: 68478-81-9	EC number: 947-263-6
Classification	
Skin Irrit. 2 - H315	
Repr. 2 - H361	
Aquatic Chronic 4 - H413	

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Fuelsi diesel	<1%
CAS number: 68334-30-5	EC number: 269-822-7
Classification Carc. 2 - H351	
Metil-1H-benzotriazol	<1%
CAS number: 29385-43-1	EC number: 249-596-6
Classification Acute Tox. 4 - H302 Aquatic Chronic 2 - H411	
Yağlama yağları (petrol), C15-30, hidrojenle muamele edilmiş nötr yağ bazlı	<1%
CAS number: 72623-86-0	EC number: 276-737-9
Classification Asp. Tox. 1 - H304	
Difenilamin	<1%
CAS number: 122-39-4	EC number: 204-539-4
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Eye Irrit. 2 - H319 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

Composition comments Some substances are not classified by legislation. They are self classified by the manufacturer. The DMSO extract by IP 346 of the oil is less than 3%

Ingredient notes See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

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

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 Treat symptomatically.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use the following: Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards Store away from incompatible materials (see Section 10).

Hazardous combustion products A complex mixture of airborne solids, liquids and gases can be released. Smoke and irritating vapours as products of incomplete combustion. Unidentified organic or inorganic compounds. Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting No action shall be taken without appropriate training or involving any personal risk. In case of insufficient ventilation, wear the required breathing apparatus. This product is flammable even if it is not easily ignited. Refer to Section 7 for proper handling and storage.

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 Wear protective clothing as described in Section 8 of this safety data sheet.

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

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

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6.2. Environmental precautions

Environmental precautions Apply protective methods to prevent spilled material from entering into water sources, water channels, sewers and soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections 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. See Section 1 for emergency contact information. See Section 7 for more information on safe handling.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene When using do not eat, drink or smoke. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description İyi bir havalandırma sağlanmalıdır. Buharın solumasından kaçınılmalıdır. Sıvı ve soğuk depolama tankı ile temastan kaçınılmalıdır. Silindirler kullanılırken koruyucu ayakkabı ve eldiven giyilmelidir. Göz ile temastan kaçınılmalıdır. The product must be used as specified in the data sheet. Good ventilation should be provided in the working environment and the vapor generated during use should be avoided. Avoid contact with skin and apply hygienic rules. Avoid contact with eyes. Goggles or face to prevent eye contact mask should be used. Use disposable clothing. Dispose of contaminated clothing without packaging. It should not be siphoned by mouth.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic

Oil mist: TWA: 5 mg/m³ (ACGIH). In no case should this limit be exceeded or the local limit, if it is more restrictive.

Ingredient comments No other information known.

Biological limit values No other information known.

DNEL No other information known.

DMEL No other information known.

PNEC No other information known.

Highly refined mineral oil (CAS: 64742-01-4)

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Ingredient comments

Oil Mist TWA: 5 mg /m3 (ACGIH).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Take care as floors and other surfaces may become slippery.

Personal protection

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. Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

Thermal hazards

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

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Brownish.
Odour	Characteristic.
Odour threshold	Inconclusive data.
pH	Inconclusive data.
Melting point	Inconclusive data.
Initial boiling point and range	Inconclusive data.
Flash point	260°C OC (Open cup).
Evaporation rate	Inconclusive data.
Evaporation factor	Inconclusive data.

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Flammability (solid, gas)	Inconclusive data.
Upper/lower flammability or explosive limits	Inconclusive data.
Other flammability	Inconclusive data.
Vapour pressure	Inconclusive data.
Vapour density	Inconclusive data.
Relative density	Inconclusive data.
Bulk density	~ 0,91 @15C g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	Inconclusive data.
Auto-ignition temperature	Inconclusive data.
Decomposition Temperature	Inconclusive data.
Viscosity	414-506 cSt @ 40°C
Explosive properties	Inconclusive data.
Explosive under the influence of a flame	No other information known.
Oxidising properties	No other information known.
Comments	No other information known.

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

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10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Oxidising materials. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Bozunma sıcaklığına ısıtıldığında CO_x duman ve tahriş edici buharlarını salabilir.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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

Acute toxicity - oral

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

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

Acute toxicity - dermal

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

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

Acute toxicity - inhalation

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

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Skin corrosion/irritation Based on available data the classification criteria are not met.

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

Human skin model test Based on available data the classification criteria are not met.

Extreme pH Based on available data the classification criteria are not met.

Serious eye damage/irritation

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

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

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

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

Skin sensitisation

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

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

Germ cell mutagenicity

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

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

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

Carcinogenicity

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Summary	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.
IARC carcinogenicity	No other information known.
NTP carcinogenicity	No other information known.
<u>Reproductive toxicity</u>	
Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
Summary	Based on available data the classification criteria are not met.
STOT - single exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.
<u>Specific target organ toxicity - repeated exposure</u>	
Summary	Based on available data the classification criteria are not met.
STOT - repeated exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.
<u>Aspiration hazard</u>	
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	Based on available data the classification criteria are not met.
<u>Toxicokinetics</u>	
General information	No other information known.
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	May cause discomfort if swallowed.
Skin contact	Liquid may irritate skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
<u>Acute and chronic health hazards</u>	
Route of exposure	No other information known.
Target organs	No other information known.
Medical symptoms	No other information known.
Medical considerations	No other information known.
<u>Toxicological information on ingredients.</u>	

Highly refined mineral oil

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Acute toxicity - oral

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

Acute toxicity - dermal

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

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

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

Acute toxicity - dermal

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

Carcinogenicity

Summary

The base oils in the product content contain less than 3% DMSO according to IP 346.

Exchangeable neutral oils

Acute toxicity - oral

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

Acute toxicity - dermal

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

2,6-di-terciyer-bütülfenol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat Potential chronic effects on health: 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents: NOAEL 107 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >10000 mg/kg, Dermal, Rabbit

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

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

Reproductive toxicity

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

Reproductive toxicity - development

Developmental toxicity: - : Ambiguous uncertain, Oral, Rat Maternal toxicity: - : Positive., Oral, Rat

1-Propen, 2-metil-, süfürlenmiş

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 9800 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >7940 mg/kg, Dermal, Rabbit Sub-akut, NOAEL 100 mg/kg, Dermal, Rat

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Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 >2 mg/l, 6 hour, Vapour Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro bakteri: Negative. memeliler-hayvan: Negative.

N-1-naftilanilin

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1625 mg/kg, Oral, Rat Potential chronic effects on health: 407 Repeated Dose 28-day Oral Toxicity Study in Rodents Sub-akut, NOAEL 5 mg/kg, Oral, Rat 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents Sub-kronik, NOAEL 5 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

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

Reproductive toxicity

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

Specific target organ toxicity - repeated exposure

Target organs Kidneys Blood system

Bis(nonilfenil)amin

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 100 mg/kg, Oral, Rat

Acute toxicity - dermal

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Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Moderately irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Teratogenicity: - : Negative., Oral, Rat

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ >5000 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ >5000 mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC ₅₀ >5,53 mg/l, 4 hour, Vapour Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative. Micronucleus Test: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	78 week, Negative., Dermal, Mouse
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Teratogenicity: - : Negative., Dermal, Rat

Fuelsi diesel

<u>Carcinogenicity</u>	
Carcinogenicity	Known or suspected carcinogen for humans.

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Damıtıklar (petrol), hidrojenle muamele edilmiş hafif parafinik

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat Sub-kronik, NOAEL 125 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 mg/kg, Dermal, Rabbit Sub-kronik, NOAEL 30 mg/kg, Dermal, Rat Sub-akut, NOAEL 1000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

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

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

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

Reproductive toxicity

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

Metil-1H-benzotriazol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 720 mg/kg, Oral, Rat Sub-akut, NOAEL 150 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >1730 mg/m³, 1 hour, Vapour Rat

Skin corrosion/irritation

Skin corrosion/irritation Not corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Micronucleus Test: Negative.

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Reproductive toxicity

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

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

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat Sub-kronik, NOAEL 125 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 mg/kg, Dermal, Rabbit Sub-kronik, NOAEL 30 mg/kg, Dermal, Rat Sub-akut, NOAEL 1000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

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

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity TD 78 Ambiguous uncertain, , Mouse

Reproductive toxicity

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

Aspiration hazard

Aspiration hazard Aspiration Hazard

Difenilamin

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1165 mg/kg, Oral, Rat NOAEL 3 mg/kg, Oral, Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

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Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity NOAEL Negative., Oral, Mouse

Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - : Ambiguous uncertain, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE = Specific target organ toxicity-repeated exposure

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Ecotoxicity May be harmful to aquatic organisms. Spills form film layer on water surface and prevent oxygen transfer

12.1. Toxicity

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

Acute aquatic toxicity

Acute toxicity - fish No specific test data are available.

Acute toxicity - aquatic invertebrates Based on available data the classification criteria are not met.

Acute toxicity - aquatic plants Based on available data the classification criteria are not met.

Acute toxicity - microorganisms Based on available data the classification criteria are not met.

Acute toxicity - terrestrial Based on available data the classification criteria are not met.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage No other information known.

Short term toxicity - embryo and sac fry stages No other information known.

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Chronic toxicity - aquatic invertebrates No other information known.

Toxicity to soil No other information known.

Toxicity to terrestrial plants No other information known.

Ecological information on ingredients.

2,6-di-tertiyer-bütülfenol

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hour: 1,4 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 0,45 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hour: 1,2 mg/l, Algae

Acute toxicity - microorganisms EC₅₀, 3 hour: >1000 mg/l, Micro-organisms

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEC, 21 day: 0,035 mg/l, Daphnia magna
NOEC, 96 hour: 0,64 mg/l, Alg

1-Propen, 2-metil-, sülfürlenmiş

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: 10000 mg/l, Cyprinodon variegatus (Sheepshead minnow)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hour: >1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hour: >100 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEL, 72 hour: 5 mg/l, Alg

N-1-naftilanilin

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LL₅₀, 96 hour: 0,44 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hour: 0,3 mg/l, Daphnia magna

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Acute toxicity - aquatic plants EL50, 96 hour: 0,93 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EL50, 3 hour: >10000 mg/l, Micro-organisms

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEL, 21 day: 0,032 mg/l, Daphnia magna

Bis(nonilfenil)amin

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: >100 mg/l, Danio rerio (Zebrafish)

Acute toxicity - aquatic invertebrates EL50, 48 hour: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL50, 72 hour: 100 mg/l, Desmodesmus subspicatus

Acute toxicity - microorganisms IC₅₀, 3 hour: >100 mg/l, Micro-organisms

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEL, 72 hour: >10 mg/l, Alg

Damıtıklar (petrol), hidrojenle muamele edilmiş hafif parafinik

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL50, 48 hour: >10000 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEL, 14 day: >=1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

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

Metil-1H-benzotriazol

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: 180 mg/l, Danio rerio (Zebrafish)

Acute toxicity - aquatic invertebrates EL50, 48 hour: 8,58 mg/l, Daphnia magna
Fresh water

Acute toxicity - aquatic plants EL50, 72 hour: 75 mg/l, Freshwater algae

Acute toxicity - microorganisms EL50, 24 hour: 1060 mg/l, Micro-organisms

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Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates EL10, 72 hour: 1,18 mg/l, Alg, Fresh water
EL10, 21 day: 0,4 mg/l, Daphnia magna

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

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates EL50, 48 hours: >10000 mg/l, Daphnia magna

Chronic aquatic toxicity

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

Difenilamin

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1
M factor (Acute) 1
Acute toxicity - fish LC₅₀, 96 hour: 3,79 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 2 mg/l, Daphnia magna
Acute toxicity - aquatic plants EC₅₀, 72 hour: 0,43 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 1
Chronic toxicity - fish early life stage NOEL, 21 day: 0,625 mg/l, Oryzias latipes (Red killifish)
Chronic toxicity - aquatic invertebrates NOEC, 72 hour: 0,027 mg/l, Alg
NOEL, 21 day: 0,125 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability	No other information known.
Phototransformation	No other information known.
Stability (hydrolysis)	No other information known.
Biodegradation	No other information known.
Biological oxygen demand	No other information known.
Chemical oxygen demand	No other information known.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

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Biodegradation Not expected to be readily biodegradable.

2,6-di-terciyer-bütülfenol

Biodegradation OECD TG 302 C - 12-24: % 28 day
Not readily biodegradable.

1-Propen, 2-metil-, süfürlenmiş

Biodegradation OECD 301 B - 0,3: % 28 day

N-1-naftilanilin

Biodegradation OECD 301 C - 0: % 28 day
Not readily biodegradable.

Bis(nonilfenil)amin

Biodegradation OECD 301 B - 1: % 28 day

Damıtıklar (petrol), hidrojenle muamele edilmiş hafif parafinik

Biodegradation OECD 301 F - 31: % 28 day

Metil-1H-benzotriazol

Biodegradation OECD 301 F - 4: % 28 day

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

Biodegradation OECD 301 F - 31: % 28 day

Difenilamin

Biodegradation OECD 301 C - 38: % 28 day
OECD 301 D - 26: % 28 day

12.3. Bioaccumulative potential

Bioaccumulative potential No other information known.

Partition coefficient Inconclusive data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential Potentially bioaccumulating.

2,6-di-terciyer-bütülfenol

Bioaccumulative potential log Pow: 4,5,

N-1-naftilanilin

Bioaccumulative potential log Pow: 4,28, BCF: 1424,

Bis(nonilfenil)amin

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Bioaccumulative potential log Pow: 3,64-7,02, BCF: 1730,

Difenilamin

Bioaccumulative potential log Pow: 3,5, BCF: 151,36,

12.4. Mobility in soil

Mobility	No other information known.
Adsorption/desorption coefficient	No other information known.
Henry's law constant	No other information known.
Surface tension	No other information known.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Mobility Liquid under most environmental conditions. Floats on water. If spread into ground the groundwater may be polluted.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No other information known.

Ecological information on ingredients.

Fuelsi diesel

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No other information known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Confirm disposal procedures with environmental engineer and local regulations.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

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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

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

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
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010. https://echa.europa.eu
Guidance	Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

UZEM: National Poison Information Center
 E.U. : European union
 DMSO: Dimethyl sulfoxide
 KKE: Personal protective equipment
 T.C. : Republic of Turkey
 TWA: Workplace exposure limits
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 LC₅₀: Lethal Concentration to 50 % of a test population.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 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.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 BCF: Bioconcentration Factor.
 EC₅₀: 50% of maximal Effective Concentration.
 NOAEL: No Observed Adverse Effect Level.
 DMEL: Derived Minimal Effect Level.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Asp. Tox. = Aspiration hazard
 STOT RE = Specific target organ toxicity-repeated exposure
 Skin Corr. = Skin corrosion
 Skin Sens. = Skin sensitisation
 Skin Irrit. = Skin irritation
 Eye Irrit. = Eye irritation
 Carc. = Carcinogenicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

General information

Only trained personnel should use this material. 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. This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. MSDS Distribution : The information in this document should be made available to all who may handle the product. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Key literature references and sources for data

This SDS is prepared based on the information received from raw material suppliers. Source: European Chemicals Agency, <http://echa.europa.eu/>

Classification procedures according to Regulation (EC) 1272/2008

Not classified for environmental hazards., Not classified for physical hazards., Not classified for health hazards.: Calculation method., Supplier information

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Training advice	Untrained personnel should not use.
Revision comments	Revised classification.
Issued by	Emrah Parmak Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
Revision date	09/03/2020
Revision	3
Supersedes date	17/06/2011
SDS number	10152
Hazard statements in full	H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H351 Suspected of causing cancer if swallowed. H361 Suspected of damaging 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. H413 May cause long lasting harmful effects to aquatic life. H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.