



SAFETY DATA SHEET TURBIN YAGI 220

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 TURBIN YAGI 220

Product number 21825

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

Identified uses Industrial oil

Uses advised against This product must not be used outside of the practices recommended in Section 1 without prior advice from the supplier.

1.3. Details of the supplier of the safety data sheet

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
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 Emergency Medical Services: 112 National Poison Consultance Center: 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P401 Store in accordance with national regulations.
P501 Dispose of contents/ container in accordance with national regulations.

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2.3. Other hazards

As supplied, the material does not present a health hazard.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic	40-60%
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0033
Classification	
Not Classified	

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.
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.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	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.

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Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Not known.

Hazardous combustion products A complex mixture of airborne solids, liquids and gases can be released. Carbon monoxide (CO). Oxides of sulphur. Unidentified organic or inorganic compounds. Oxides of carbon. Carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

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

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

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.

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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 The product must be used as specified in the data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

There is no available data.

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 Oil Mist TWA: 5 mg /m³ (ACGIH). Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Eu.) TWA: 5 mg/m³ (8 h.)

Biological limit values There is no available data.

DNEL There is no available data.

DMEL There is no available data.

PNEC There is no available data.

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

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.

Personal protection

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. When using do not eat, drink or smoke.

Respiratory protection

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

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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 Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	~ 260°C OC (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 specific test data are available.
Other flammability	No specific test data are available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No specific test data are available.
Bulk density	~ 0,89 @15°C g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	220 cSt @ 40°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No suitable data is available.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Other information No information required.

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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 information 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. Avoid contact with the following materials:
Oxidising agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Methacrylates. Oil vapors in case of overheating.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on product data, a knowledge of the components and the toxicology of similar products.

Other health effects No relevant information available.

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

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

Skin corrosion/irritation

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Summary	Basen on the available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Animal data	Inconclusive data.
Human skin model test	Inconclusive data.
Extreme pH	Inconclusive data.
<u>Serious eye damage/irritation</u>	
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.
<u>Respiratory sensitisation</u>	
Summary	Based on available data, the classification criteria are not met. Mist may cause slight irritation if inhaled.
Respiratory sensitisation	Inconclusive data.
<u>Skin sensitisation</u>	
Summary	Does not meet the classification criteria.
Skin sensitisation	Inconclusive data.
<u>Germ cell mutagenicity</u>	
Summary	It is not expected to cause genetic damage in the light of current data.
Genotoxicity - in vitro	Inconclusive data.
Genotoxicity - in vivo	Inconclusive data.
<u>Carcinogenicity</u>	
Summary	The base oils in the product content contain less than 3% DMSO according to IP 346.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.
<u>Reproductive toxicity</u>	
Summary	There is no test data indicating that this product has a toxic effect on the reproductive system.
Reproductive toxicity - fertility	Inconclusive data.
Reproductive toxicity - development	No information is required.
<u>Specific target organ toxicity - single exposure</u>	
Summary	There is no available data.
STOT - single exposure	Inconclusive data.
Target organs	No specific target organs known.
<u>Specific target organ toxicity - repeated exposure</u>	
Summary	There is no available data.
STOT - repeated exposure	Inconclusive data.
Target organs	No specific target organs known.
<u>Aspiration hazard</u>	

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Summary	Slight irritation of the respiratory tract may occur, if mists are inhaled.
Aspiration hazard	Based on available data, the classification criteria are not met.
Toxicokinetics	No information is required.
General information	Information given is based on data of the components and of similar products.
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.
Acute and chronic health hazards	There is not enough data.
Route of exposure	There is no available data.
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.

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.

Highly refined mineral oil

Acute toxicity - oral

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

Acute toxicity - dermal

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

2,6-di-terseyer-bütilfenol

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

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Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - : Ambiguous uncertain, Oral, Rat Maternal toxicity: - : Positive., Oral, Rat

Bis(nonilfenil)amin

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 100 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
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

N-1-naftilanilin

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 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
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rabbit
<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	Sensitising.

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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

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >5,53 mg/l, 4 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 Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative. Micronucleus Test: Negative.

Carcinogenicity

Carcinogenicity 78 week, Negative., Dermal, Mouse

Reproductive toxicity

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

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

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

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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.

Reproductive toxicity

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

Lubricating oils (petroleum), C15-30, based on hydrogenated neutral oil

Acute toxicity - oral

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

Acute toxicity - dermal

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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

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

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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 The product is not expected to be hazardous to 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 There is not enough data.

Acute aquatic toxicity

Summary Based on available information, the classification criteria are not met.

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

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 No information required.

Chronic aquatic toxicity

Summary Based on available information, the classification criteria are not met.

Chronic toxicity - fish early life stage No information required.

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

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

Toxicity to soil There is not enough data.

Toxicity to terrestrial plants There is not enough data.

Ecological information on ingredients.

2,6-di-terseyer-bütülfenol

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Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hour: 1,4 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 0,45 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hour: 1,2 mg/l, Algae
Acute toxicity - microorganisms	EC ₅₀ , 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

Bis(nonilfenil)amin

Acute aquatic toxicity

Acute toxicity - fish	LL ₅₀ , 96 hour: >100 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL ₅₀ , 72 hour: 100 mg/l, Desmodemus subspicatus
Acute toxicity - microorganisms	IC ₅₀ , 3 hour: >100 mg/l, Micro-organisms

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEL, 72 hour: >10 mg/l, Alg
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N-1-naftilanilin

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LL ₅₀ , 96 hour: 0,44 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: 0,3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL ₅₀ , 96 hour: 0,93 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EL ₅₀ , 3 hour: >10000 mg/l, Micro-organisms

Chronic aquatic toxicity

M factor (Chronic)	1
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Chronic toxicity - aquatic invertebrates NOEL, 21 day: 0,032 mg/l, Daphnia magna

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

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

Lubricating oils (petroleum), C15-30, based on hydrogenated neutral oil

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

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Acute toxicity - fish	LC ₅₀ , 96 hour: 3,79 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hour: 0,43 mg/l, Algae
<u>Chronic aquatic toxicity</u>	
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	Based on available information, the classification criteria are not met.
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.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Biodegradation	Not expected to be readily biodegradable.
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2,6-di-terciyer-bütülfenol

Biodegradation	OECD TG 302 C - 12-24: % 28 day Not readily biodegradable.
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Bis(nonilfenil)amin

Biodegradation	OECD 301 B - 1: % 28 day
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N-1-naftilanilin

Biodegradation	OECD 301 C - 0: % 28 day Not readily biodegradable.
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Damıtıklar (petrol), hidrojenle muamele edilmiş hafif parafinik

Biodegradation	OECD 301 F - 31: % 28 day
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Metil-1H-benzotriazol

Biodegradation	OECD 301 F - 4: % 28 day
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Lubricating oils (petroleum), C15-30, based on hydrogenated neutral oil

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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 information required.

Partition coefficient No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential Potentially bioaccumulating.

2,6-di-terciyer-bütülfenol

Bioaccumulative potential log Pow: 4,5,

Bis(nonilfenil)amin

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

N-1-naftilanilin

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

Difenilamin

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

12.4. Mobility in soil

Mobility The product is immiscible with water and will spread on the water surface.

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.

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 data available.

12.6. Other adverse effects

Other adverse effects This product contains components that have a harmful effect on the aquatic environment. Do not allow to enter into soil, rivers or sewers.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible.
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).
Road transport notes	Not classified.
Rail transport notes	Not classified.
Sea transport notes	Not classified.
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

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 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
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EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.
Dangerous Preparations Directive 1999/45/EC.
Dangerous Substances Directive 67/548/EEC.

Guidance Safety Data Sheets for Substances and Preparations.

Health and environmental listings Hazardous ingredients are listed.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

DMSO: Dimethyl sulfoxide
 E.U. : European union
 KKE: Personal protective equipment
 T.C. : Republic of Turkey
 TWA: Workplace exposure limits
 UZEM: National Poison Information Center
 ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: 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.
 vPvB: Very Persistent and Very Bioaccumulative.
 NOEC: No Observed Effect Concentration.
 EC₅₀: 50% of maximal Effective Concentration.

Classification abbreviations and acronyms

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

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. 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/>

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Classification procedures according to Regulation (EC) 1272/2008	Not classified for health hazards.: Calculation method., Supplier information Not classified for environmental hazards.: Calculation method., Supplier information Not classified for physical hazards.: Calculation method., Supplier information
Training advice	Untrained personnel should not use.
Revision comments	Revised classification.
Issued by	Ece Korkut Safety and Data Sheet Specialist (Certificate No: GBF01.54.04 26.06.2024)
Revision date	16/05/2022
Revision	4
Supersedes date	17/06/2011
SDS number	10272
SDS status	Approved.

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