SAFETY DATA SHEET
SUPER GRES EP 0

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 SUPER GRES EP 0

Product number 43121

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

Identified uses Grease.

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/ Istanbul
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 Eye Irrit. 2 - H319

Environmental hazards Aquatic Chronic 3 - H412

Human health Prolonged skin contact may cause temporary irritation. Splashes in the eyes may cause redness and irritation.

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

2.2. Label elements

Hazard pictograms

Signal word Warning

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Hazard statements EUH208 Contains N-1-naftilanilin. May produce an allergic reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic **60-80%**

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

Classification
Not Classified

Distillates (petroleum), hydrotreated heavy naphthenic **25-40%**

CAS number: 64742-52-5 EC number: 265-155-0

Classification
Not Classified

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts **1-5%**

CAS number: — EC number: 273-527-9

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 2 - H411

2,6-di-tert-butylphenol **1-5%**

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

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Bis(nonilfenil)amin	**<1%**
CAS number: 36878-20-3	EC number: 253-249-4
Classification	
Aquatic Chronic 4 - H413	

Reaction products of Dihydro-3-(tetrapropenyl) furan-2,5 dione with Propane-1,2,diol	**<1%**
CAS number: —	EC number: 947-696-0
Classification	
Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	

Hidrokarbonlar,C10-13,aromatikler,<1%,naftalen	**<1%**
CAS number: —	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	

Fuelsi diesel	**<1%**
CAS number: 68334-30-5	EC number: 269-822-7
Classification	
Carc. 2 - H351	

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

Composition comments Some substances are not classified by legistlation.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.

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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 affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
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	Causes eye irritation.

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 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	None known.

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.

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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. Proper ventilation should be provided.

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 See Section 7 for more information on safe handling. For personal protection, see Section 8. See Section 1 for emergency contact information. For waste disposal, see Section 13. 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. Take off immediately all contaminated clothing and wash it before reuse. Wash after use and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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. Keep only in the original container.

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

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.

Distillates (petroleum), hydrotreated heavy naphthenic

Mineral Oil; TWA: 5 mg/m3 , ACGIH (United States)

Ingredient comments WEL = Workplace Exposure Limits

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Biological limit values	No information available.
DNEL	No other information known.
DMEL	No other information known.
PNEC	No other information known.

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts

DNEL	Workers - Dermal; Long term systemic effects: 9,6 mg/kg, bw/day Consumer - Dermal; Long term systemic effects: 4,8 mg/kg, bw/day Consumer - Oral; Long term systemic effects: 0,19 mg/kg, bw/day
PNEC	- Water; 0,004 mg/l

2,6-di-tert-butylphenol (CAS: 128-39-2)

DNEL	Workers - Dermal; Long term systemic effects: 11,25 mg/kg, bw/day Workers - Inhalation; Long term systemic effects: 70,61 mg/m³ Consumer - Oral; Long term systemic effects: 6,75 mg/kg, bw/day Consumer - Inhalation; Long term systemic effects: 20,9 mg/m³
PNEC	- Water; 0,00045 mg/l - marine water; 0,000045 mg/l

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	Koruyucu elbise ve önlüklerin düzenli bakımı yapılmalıdır.
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	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. 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.
Thermal hazards	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

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Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. 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	Semi-solid
Colour	Yellow.
Odour	Characteristic.
Odour threshold	Inconclusive data.
pH	Scientifically unjustified.
Melting point	Inconclusive data.
Initial boiling point and range	Inconclusive data.
Flash point	~ 200 damlama noktası-dropping point°C
Evaporation rate	Inconclusive data.
Evaporation factor	Inconclusive data.
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	Inconclusive data.
Solubility(ies)	Insoluble in water.
Partition coefficient	Inconclusive data.
Auto-ignition temperature	Inconclusive data.
Decomposition Temperature	Inconclusive data.
Viscosity	Inconclusive data.
Explosive properties	Inconclusive data.
Explosive under the influence of a flame	Inconclusive data.
Oxidising properties	Inconclusive data.
Comments	No other information known.

9.2. Other information

Other information	No information required.
Refractive index	No information required.
Particle size	No information required.

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Molecular weight	No information required.
Volatility	No information required.
Saturation concentration	No information required.
Critical temperature	No information required.
Volatile organic compound	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	This product is stable under normal conditions.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.

10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid	Strong reducing agents. Strong oxidising agents. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	None known.

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 LD_{50})	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 LD_{50})	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 LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Summary	No other information known.
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Animal data	No other information known.

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Human skin model test	No other information known.
Extreme pH	No other information known.

Serious eye damage/irritation

Summary	Causes eye irritation.
Serious eye damage/irritation	Irritation of eyes is assumed.

Respiratory sensitisation

Summary	No other information known.
Respiratory sensitisation	No other information known.

Skin sensitisation

Summary	No other information known.
Skin sensitisation	No other information known.

Germ cell mutagenicity

Summary	No other information known.
Genotoxicity - in vitro	No other information known.
Genotoxicity - in vivo	No other information known.

Carcinogenicity

Summary	No other information known.
Carcinogenicity	No other information known.
Target organ for carcinogenicity	No other information known.
IARC carcinogenicity	No other information known.
NTP carcinogenicity	No other information known.

Reproductive toxicity

Summary	No other information known.
Reproductive toxicity - fertility	No other information known.
Reproductive toxicity - development	No other information known.

Specific target organ toxicity - single exposure

Summary	No other information known.
STOT - single exposure	No other information known.
Target organs	No other information known.

Specific target organ toxicity - repeated exposure

Summary	No other information known.
STOT - repeated exposure	No other information known.
Target organs	No other information known.

Aspiration hazard

Summary	No other information known.
Aspiration hazard	No other information known.

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Toxicokinetics	No other information known.
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	Irritation of eyes is assumed.
Acute and chronic health hazards	No other information known.
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.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >2000 mg/kg, Oral,

Acute toxicity - dermal

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

Carcinogenicity

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

Distillates (petroleum), hydrotreated heavy naphthenic

Acute toxicity - oral

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

Notes (inhalation LC_{50}) LC50 >5,53 mg/l, 4 hour, 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

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Genotoxicity - in vitro	Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	Negative., Dermal, Mouse, Female
Reproductive toxicity	
Reproductive toxicity - development	Teratogenicity: - : Negative., Dermal, Rat

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} 3600 mg/kg, Oral, Rat NOAEL, Sub-akut 125 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} 13800 mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LC50 >2 mg/l, 1 hour, Vapour Rat
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Positive. Bacterial reverse mutation test: Negative.
Reproductive toxicity	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat, Male
Reproductive toxicity - development	Maternal toxicity: - : Positive., Oral, Rat, Male Developmental toxicity: - : Ambiguous uncertain, Oral, Rat, Male

2,6-di-tert-butylphenol

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >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 LD_{50})	LD_{50} >10000 mg/kg, Dermal, Rabbit
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 - fertility	Fertility - Negative., Oral, Rat

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

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 125 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >5000 mg/kg, Dermal, Rabbit NOAEL, Sub-kronik 30 mg/kg, Dermal, Rat, Female NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	LC50 >5,53 mg/l, 4 hour, Vapour Rat NOAEL, Sub-kronik 0,22 mg/l, 4 week, Dust/Mist Rat NOAEL, Sub-kronik 0,15 mg/l, 13 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.
Carcinogenicity	
Carcinogenicity	78 week, Negative., Dermal, Mouse
Reproductive toxicity	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Teratogenicity: - : Negative., Dermal, Rat Maternal toxicity: - Negative.: , Oral, Rat Developmental toxicity: - Negative.: , Oral, Rat

Bis(nonilfenil)amin

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 100 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Moderately irritating.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Rodent Dominant Lethal Test: Negative.

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Reproductive toxicity

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

Reaction products of Dihydro-3-(tetrapropenyl) furan-2,5 dione with Propane-1,2,diol

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 2000 mg/kg, Oral, Rat NOAEL, Sub-kronik 300 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

Skin corrosion/irritation

Skin corrosion/irritation Skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Moderately 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 - fertility Fertility - Negative., Oral, Rat

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

Damıtıklar (petrol) solvent cilası alınmış ağır parafinik

Acute toxicity - oral

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 NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 >5,53 mg/l, 4 hour, Vapour Rat NOAEL, 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.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

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Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Aspiration hazard

Aspiration hazard	Aspiration Hazard

Hidrokarbonlar,C10-13,aromatikler,<1%,naftalen

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat NOAEL, Sub-kronik 750 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit NOAEL, Sub-kronik 495 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 >5,28 mg/m³, 4 hour, Vapour Rat NOAEL, Sub-kronik 1000 mg/m³, 90 day, 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. In vitro Sister Chromatid Exchange Assay: Negative.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - : Negative., Oral, Rat Maternal toxicity: - : Positive., Oral, Rat

Aspiration hazard

Aspiration hazard	Aspiration Hazard

N-1-naftilanilin

Acute toxicity - oral

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Notes (oral LD_{50})	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

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >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

Fuelsi diesel

Carcinogenicity

Carcinogenicity	Known or suspected carcinogen for humans.

SECTION 12: Ecological information

Ecotoxicity	Aquatic Chronic 3 - H412

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	Aquatic Chronic 3 - H412

Acute aquatic toxicity

Summary	Based on available data 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.

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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

Summary	Based on available data the classification criteria are not met.
Chronic toxicity - fish early life stage	Based on available data the classification criteria are not met.
Short term toxicity - embryo and sac fry stages	Based on available data the classification criteria are not met.
Chronic toxicity - aquatic invertebrates	Based on available data the classification criteria are not met.
Toxicity to soil	Based on available data the classification criteria are not met.
Toxicity to terrestrial plants	Based on available data the classification criteria are not met.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy naphthenic

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EL50, 96 hour: >10000 mg/l, Daphnia magna NOEL, chronic, 21 day: 10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEL, 72 hour: >100 mg/l, Algae

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates	EL50, 48 hour: 5,4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hour: 2,1 mg/l, Selenastrum capricornutum NOEL, 72 hour: 1 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EL50, 3 hour: >10000 mg/l, Micro-organisms

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 0,4 mg/l, Daphnia magna

2,6-di-tert-butylphenol

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 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

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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

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow) NOEL, chronic, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: >10000 mg/l, Daphnia magna
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 10 mg/l, Daphnia magna NOEL, 72 hour: >=100 mg/l, Pseudokirchneriella subcapitata

Bis(nonilfenil)amin

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 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	IC_{50}, 3 hour: >100 mg/l, Micro-organisms
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEL, 72 hour: >10 mg/l, Alg

Reaction products of Dihydro-3-(tetrapropenyl) furan-2,5 dione with Propane-1,2,diol

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hour: 26,3 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: 84,91 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hour: >59,6 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hour: 59,6 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EL50, 3 hour: >1000 mg/l, Micro-organisms

Damıtıklar (petrol) solvent cilası alınmış ağır parafinik

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Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow) NOEL, chronic, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: >10000 mg/l, Daphnia magna
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 10 mg/l, Daphnia magna NOEL, 72 hour: >=100 mg/l, Pseudokirchneriella subcapitata

Hidrokarbonlar,C10-13,aromatikler,<1%,naftalen

Acute aquatic toxicity	
Acute toxicity - fish	LL_{50}, 96 hour: 2-5 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: 1,4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hour: >1 mg/l, Pseudokirchneriella subcapitata NOEL, 72 hour: 1 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 0,48 mg/l, Daphnia magna

N-1-naftilanilin

Acute aquatic toxicity	
$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LL_{50}, 96 hour: 0,44 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hour: 0,3 mg/l, Daphnia magna
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

12.2. Persistence and degradability

Persistence and degradability	Based on available data the classification criteria are not met.
Phototransformation	Based on available data the classification criteria are not met.
Stability (hydrolysis)	Based on available data the classification criteria are not met.
Biodegradation	Based on available data the classification criteria are not met.
Biological oxygen demand	Based on available data the classification criteria are not met.

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Chemical oxygen demand Based on available data the classification criteria are not met.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Biodegradation Not expected to be readily biodegradable.

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts

Biodegradation OECD 301 B - 1,5 %: 28 day

2,6-di-tert-butylphenol

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

Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Biodegradation OECD 301 F - 31 %: 28 day

Bis(nonilfenil)amin

Biodegradation OECD 301 B - 1: % 28 day

Reaction products of Dihydro-3-(tetrapropenyl) furan-2,5 dione with Propane-1,2,diol

Biodegradation OECD 301 B - 0 %: 28 day

Damıtıklar (petrol) solvent cilası alınmış ağır parafinik

Biodegradation OECD 301 F - 31 %: 28 day

Hidrokarbonlar,C10-13,aromatikler,<1%,naftalen

Biodegradation OECD 301 F - 58,6 %: 28 day

N-1-naftilanilin

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

12.3. Bioaccumulative potential

Bioaccumulative potential Based on available data the classification criteria are not met.

Partition coefficient Inconclusive data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential Potentially bioaccumulating.

Distillates (petroleum), hydrotreated heavy naphthenic

Bioaccumulative potential log Pow: 2-6, BCF: <500,

2,6-di-tert-butylphenol

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Bioaccumulative potential log Pow: 4,5,

Bis(nonilfenil)amin

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

Hidrokarbonlar,C10-13,aromatikler,<1%,naftalen

Bioaccumulative potential log Pow: 2,8-6,5, BCF: 99-5780,

N-1-naftilanilin

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

12.4. Mobility in soil

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

Adsorption/desorption coefficient Based on available data the classification criteria are not met.

Henry's law constant Based on available data the classification criteria are not met.

Surface tension Based on available data the classification criteria are not met.

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.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

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

SECTION 14: Transport information

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

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.
According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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.
Source: European Chemicals Agency, http://echa.europa.eu/

15.2. Chemical safety assessment

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

E.U. : European union
DMSO: Dimethyl sulfoxide
STEL: Short term exposure limit
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.
GHS: Globally Harmonized System.
DNEL: Derived No Effect Level.
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.
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.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.

Classification abbreviations and acronyms

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

General information

MSDS Distribution : The information in this document should be made available to all who may handle the product. 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. 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	Eye Irrit. 2 - H319: Calculation method., Supplier information Aquatic Chronic 3 - H412: Calculation method., Supplier information
Training advice	Untrained personnel should not use.
Revision comments	Revised classification. Adding content information.
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	07/04/2020
Revision	3
Supersedes date	13/06/2011
SDS number	10261
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer 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. H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled. EUH208 Contains N-1-naftilanilin. May produce an allergic reaction.