



SAFETY DATA SHEET HYDRO TECH HVI 100

Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name HYDRO TECH HVI 100

Product number 22146

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.
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 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 local regulations.
P501 Dispose of contents/ container in accordance with local 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	80-95%
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-0033

Classification

Not Classified

Damıtıklar (petrol), solvent cılası alınmış ağır parafınık	5-10%
CAS number: 64742-65-0	EC number: 265-169-7

Classification

Not Classified

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiophosphate)	<1%
CAS number: 4259-15-8	

Classification

Eye Dam. 1 - H318
Aquatic Chronic 2 - H411

2,6-di-tert-butylphenol	<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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	<1%
CAS number: 122384-87-6	EC number: 272-234-3

Classification

Aquatic Chronic 4 - H413

Bis(nonilfenil)amin	<1%
CAS number: 36878-20-3	EC number: 253-249-4

Classification

Aquatic Chronic 4 - H413

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Polyglycol ether	<1%
CAS number: —	
Classification	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Calcium bis (dinonilnaftalinsulfonat)	<1%
CAS number: 57855-77-3 EC number: 260-991-2	
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Fuelsi diesel	<1%
CAS number: 68334-30-5 EC number: 269-822-7	
Classification	
Carc. 2 - H351	
phenol, (tetrapropenyl) derivatives	<1%
CAS number: 74499-35-7 EC number: 616-100-8	
M factor (Acute) = 10 M factor (Chronic) = 10	
Classification	
Skin Corr. 1 - H314	
Eye Dam. 1 - H318	
Repr. 1B - H360	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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 advice/attention if you feel unwell.
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.

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.

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). Oxides of nitrogen. Oxides of phosphorus. Metal oxide(s). Hydrogen sulphide (H₂S).

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.

6.2. Environmental precautions

Environmental precautions Avoid 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.

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.

Damıtıklar (petrol), solvent cilası alınmış ağır parafinik

TWA: Workplace exposure limits

5 mg/m³

8 hours

STEL: Short term exposure limit

10 mg/m³

15 minutes.

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Ingredient comments	Oil Mist TWA: 5 mg /m3 (ACGIH). Distillates (petroleum) hydrotreated heavy parafinic: 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.

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.

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.

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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 strong oxidising 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

Summary Based 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.

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. Mist may cause slight irritation if inhaled.

Respiratory sensitisation Inconclusive data.

Skin sensitisation

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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>	
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.
<u>Toxicokinetics</u>	
Summary	No information is required.
<u>General information</u>	
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.

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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.

distillates (petroleum), solventrefined heavy paraffinic; baseoil - unspecified

Acute toxicity - oral

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

Acute toxicity - dermal

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

Damıtıklar (petrol), solvent cilası alınmış 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 NOAEL, Sub-akut 1000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) 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 Moderately irritating.

Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Germ cell mutagenicity

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

Reproductive toxicity

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

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

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiosphate)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3100 mg/kg, Oral, Rat NOAEL, Sub-akut 125 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Skin corrosion/irritation

Skin corrosion/irritation Not corrosive to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro memeliler-hayvan: Positive. Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Micronucleus Test, memeliler-hayvan: Negative.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - Negative., ,

Reproductive toxicity - development Developmental toxicity: - : Negative., , Maternal toxicity: - : Negative., ,

2,6-di-tert-butylphenol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat NOAEL, Sub-kronik 270 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Skin corrosion/irritation

Skin corrosion/irritation Skin irritation.

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

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

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 LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat LOAEL, Sub-kronik 125 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >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 LC₅₀) 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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 200 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit NOAEL, Sub-akut 250 mg/kg, Dermal, Rat

Skin corrosion/irritation

Skin corrosion/irritation Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

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Germ cell mutagenicity

Genotoxicity - in vitro

Bacterial reverse mutation test: Negative. Gene mutation, memeliler-hayvan: Negative.

Reproductive toxicity

Reproductive toxicity - development

Teratogenicity: - : Negative., Oral, Rat

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

Notes (dermal LD₅₀)

LD₅₀ >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. Gene mutation: Negative.

Reproductive toxicity

Reproductive toxicity - development

Teratogenicity: - : Negative., Oral, Rat

Polyglycol ether

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅₀ 300-2000 mg/kg, Oral, Rat NOAEL, Sub-akut 100 mg/kg, Oral, Rat

ATE oral (mg/kg)

500.0

Acute toxicity - dermal

Notes (dermal LD₅₀)

LD₅₀ >2000 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

Two-generation study - Maternal toxicity: Positive., Inhalation, Rat Fertility, Two-generation study - Negative., Inhalation, Rat Two-generation study - Developmental toxicity: Negative., Inhalation, Rat

Reproductive toxicity - development

Maternal toxicity: - : Positive., Oral, Rat Developmental toxicity: - : Negative., Oral, Rat Fertility - : Negative., Oral, Rat Teratogenicity: - : Negative., Dermal, Rat

Calcium bis (dinonilnaftalinsulfonat)

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Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 95 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >20000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >18 mg/l, 1 hour, Vapour Rat

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Germ cell mutagenicity

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

Fuelsi diesel

Carcinogenicity

Carcinogenicity Known or suspected carcinogen for humans.

phenol, (tetrapropenyl) derivatives

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 2200 mg/kg, Oral, Rat NOAEL, Sub-kronik 15 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 15000 mg/kg, Dermal, Rabbit

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Gene mutation: Negative.

Reproductive toxicity

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

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

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. May be harmful to aquatic organisms. Spills form film layer on water surface and prevent oxygen transfer

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

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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.

Damıtıklar (petrol), solvent cilası alınmış ağır parafinik

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 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

Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiophosphate)

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: 4,4 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hour: 75 mg/l, Daphnia magna
NOEC, 21 day: 0,4 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hour: 410 mg/l, Desmodesmus subspicatus
NOEL, chronic, 72 hour: 220 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EL₅₀, 16 hour: 380 mg/l, Micro-organisms

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2,6-di-tert-butylphenol

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

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	EL ₅₀ , 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

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Acute aquatic toxicity

Acute toxicity - fish	LL ₅₀ , 96 hour: >1000 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL ₅₀ , 96 hour: >500 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EL ₅₀ , 3 hour: >10000 mg/l, Micro-organisms

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

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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

Polyglycol ether

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hour: 104 mg/l, Danio rerio (Zebrafish)

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

Acute toxicity - aquatic plants EL50, 96 hour: 326 mg/l, Selenastrum capricornutum
EL10, chronic, 96 hour: 113 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EL50, 10 minute: >1000 mg/l, Micro-organisms

Calcium bis (dinonilnaftalinsulfonat)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: >0,28 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: >0,27 mg/l, Daphnia magna
NOEL, chronic, 21 day: 4,6 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hour: >1,2 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EL50, 3 hour: 560 mg/l, Micro-organisms

phenol, (tetrapropenyl) derivatives

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LL₅₀, 96 hour: 40 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL50, 48 hour: 0,037 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL50, 72 hour: 0,36 mg/l, Desmodesmus subspicatus
NOEL, 72 hour: 0,07 mg/l, Desmodesmus subspicatus

Acute toxicity - microorganisms EL50, 3 hour: >1000 mg/l, Micro-organisms

Chronic aquatic toxicity

M factor (Chronic) 10

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Chronic toxicity - aquatic invertebrates NOEL, 21 day: 0,0037 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.

Damıtıklar (petrol), solvent cılası alınmıř ađır parafınık

Biodegradation OECD 301 F - 31 %: 28 day

Zin bis [O, O-bis (2-ethylhexyl)] bis (diitiophosphate)

Biodegradation OECD 301 D - <5%: The other substances in the product are not expected to be readily biodegradable. 27 day

2,6-di-tert-butylphenol

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

Damıtıklar (petrol), hidrojenle muamele edilmıř ađır parafınık

Biodegradation OECD 301 F - 31 %: 28 day

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Biodegradation OECD 301 B - 13,4 %: 28 day

Bis(nonilfenil)amin

Biodegradation OECD 301 B - 1: % 28 day

Polyglycol ether

Biodegradation OECD 301 F - 79: % 28 day

Calcium bis (dinonilnaftalinsulfonat)

Biodegradation OECD 301 B - 14: % 29 day

phenol, (tetrapropenyl) derivatives

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Biodegradation OECD 301 B - 6-25 %: 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.

Zin bis [O, O-bis (2-ethylhexyl)] bis (dithiophosphate)

Partition coefficient log Pow: 3,59

2,6-di-tert-butylphenol

Bioaccumulative potential log Pow: 4,5,

Bis(nonilfenil)amin

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

Polyglycol ether

Bioaccumulative potential log Pow: 1,18-4,37,

phenol, (tetrapropenyl) derivatives

Bioaccumulative potential BCF: 289-1601,

12.4. Mobility in soil

Mobility The product is insoluble in 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.

Ecological information on ingredients.

Zin bis [O, O-bis (2-ethylhexyl)] bis (dithiophosphate)

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

Calcium bis (dinonilnaftalinsulfonat)

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

Fuelsi diesel

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

phenol, (tetrapropenyl) derivatives

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

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

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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. 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. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. vPvB: Very Persistent and Very Bioaccumulative. NOEC: No Observed Effect Concentration. EC ₅₀ : 50% of maximal Effective Concentration.
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Classification abbreviations and acronyms	<p>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</p>
General information	<p>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.</p>
Key literature references and sources for data	<p>This SDS is prepared based on the information received from raw material suppliers. Source: European Chemicals Agency, http://echa.europa.eu/</p>
Classification procedures according to Regulation (EC) 1272/2008	<p>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</p>
Training advice	<p>Untrained personnel should not use.</p>
Revision comments	<p>Revised classification.</p>
Issued by	<p>Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)</p>
Revision date	<p>16/09/2020</p>
Revision	<p>3</p>
Supersedes date	<p>17/06/2011</p>
SDS number	<p>10034</p>
SDS status	<p>Approved.</p>
Hazard statements in full	<p>H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer if swallowed. H360 May damage fertility or the unborn child if swallowed. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.</p>

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.