



SAFETY DATA SHEET HYDRO TECH HVI-E 32

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 HYDRO TECH HVI-E 32

Product number 22152

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 P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.
P401 Store in accordance with national regulations.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

2.3. Other hazards

HYDRO TECH HVI-E 32

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<div> Distillates (petroleum), hydrotreated heavy paraffinic baseoil 80-95% </div> <div> CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0065 </div>
Classification Asp. Tox. 1 - H304
<div> Interchangeable neutral oils 1-5% </div> <div> CAS number: — </div>
Classification Asp. Tox. 1 - H304
<div> Zin bis [O, O-bis (2-ethylhexyl)] bis (dihtiphosphate) <1% </div> <div> CAS number: 4259-15-8 </div>
Classification Eye Dam. 1 - H318 Aquatic Chronic 2 - H411
<div> 2,6-di-tert-butylphenol <1% </div> <div> CAS number: 128-39-2 EC number: 204-884-0 M factor (Acute) = 1 M factor (Chronic) = 1 </div>
Classification Skin Irrit. 2 - H315 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
<div> methyl methacrylate <1% </div> <div> CAS number: 80-62-6 </div>
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335

HYDRO TECH HVI-E 32

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		
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%

HYDRO TECH HVI-E 32

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.
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 (CO ₂). Oxides of nitrogen. Oxides of phosphorus. Metal oxide(s). Hydrogen sulphide (H ₂ S).

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.

HYDRO TECH HVI-E 32

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 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 baseoil

There is no available data.

HYDRO TECH HVI-E 32

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.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil (CAS: 64742-54-7)

Ingredient comments	There is no available data.
Biological limit values	There is no available data.
DNEL	Workers - Inhalation; Long term systemic effects: 2,7 (8h) mg/m ³ Workers - Inhalation; Long term local effects: 5,4 (8h) mg/m ³ Consumer - Inhalation; Long term local effects: 1,2 (24h) mg/m ³ Consumer - Oral; Long term systemic effects: 0,74 (24h) mg/kg/day Workers - Dermal; Long term systemic effects: 1,0 (8h) mg/kg
DMEL	No information available.
PNEC	No information available.

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.

HYDRO TECH HVI-E 32

Environmental exposure controls Store in a demarcated banded 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	~ 220°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 information available.
Bulk density	~ 0,84 @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	28,8-35,2 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.
Refractive index	No information available.

HYDRO TECH HVI-E 32

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.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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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.
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10.4. Conditions to avoid

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

Materials to avoid	Strong oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂). Methacrylates. Oil vapors in case of overheating.
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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.
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Other health effects	No relevant information available.
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Acute toxicity - oral

Summary	Based on available data, the classification criteria are not met.
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Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
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Acute toxicity - dermal

Summary	Based on the available data, the classification criteria are not met.
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Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
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Acute toxicity - inhalation

Summary	Based on the available data, the classification criteria are not met.
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Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
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Skin corrosion/irritation

Summary	Based on the available data, the classification criteria are not met.
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HYDRO TECH HVI-E 32

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>	
Summary	Slight irritation of the respiratory tract may occur, if mists are inhaled.

HYDRO TECH HVI-E 32

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 baseoil

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	No information required.
<u>Acute toxicity - oral</u>	
Summary	Based on available data the classification criteria are not met.
Notes (oral LD₅₀)	LD ₅₀ >5000 (OECD 401)/API 1982a mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Summary	Based on available data the classification criteria are not met.
Notes (dermal LD₅₀)	LD ₅₀ >5000 (OECD 402)/API 1982a mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC₅₀)	LC ₅₀ , 4h 5,53 (OECD 403)/Exxon Biomedical Sciences, Inc.(1988a) mg/l, Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Animal data	Based on available data the classification criteria are not met.
Human skin model test	Based on available data the classification criteria are not met.
Extreme pH	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	

HYDRO TECH HVI-E 32

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.
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Summary	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
<u>Reproductive toxicity</u>	
Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
Summary	Based on available data the classification criteria are not met.
STOT - single exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.
<u>Specific target organ toxicity - repeated exposure</u>	
Summary	Based on available data the classification criteria are not met.
STOT - repeated exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.
<u>Aspiration hazard</u>	
Summary	Slight irritation of the respiratory tract may occur, if mists are inhaled.
Aspiration hazard	May be fatal if swallowed and enters airways.

HYDRO TECH HVI-E 32

Toxicokinetics	No information required.
General information	No information required.
Inhalation	No information required.
Ingestion	No information required.
Skin contact	No information required.
Eye contact	No information required.
Acute and chronic health hazards	No information required.
Route of exposure	No information required.
Target organs	No specific target organs known.
Medical symptoms	No information required.
Medical considerations	No information required.

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

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

HYDRO TECH HVI-E 32

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

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

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

Exchangeable neutral oils

Acute toxicity - oral

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

Acute toxicity - dermal

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

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

HYDRO TECH HVI-E 32

Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	78 week, Negative., Dermal, Mouse
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - Negative., Oral, Rat
Reproductive toxicity - development	Teratogenicity: - : Negative., Dermal, Rat Maternal toxicity: - Negative.: , Oral, Rat Developmental toxicity: - Negative.: , Oral, Rat

methyl methacrylate

<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	500.0

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

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ >5000 mg/kg, Oral, Rat NOAEL, Sub-akut 200 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rabbit NOAEL, Sub-akut 250 mg/kg, Dermal, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Slightly irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Slightly irritating.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Gene mutation, memeliler-hayvan: Negative.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Teratogenicity: - : Negative., 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>	

HYDRO TECH HVI-E 32

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)

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.

HYDRO TECH HVI-E 32

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 baseoil

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

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.

HYDRO TECH HVI-E 32

Toxicity to soil There is not enough data.

Toxicity to terrestrial plants There is not enough data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

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

Acute aquatic toxicity

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

Acute toxicity - fish LL₅₀, : >100 mg/l, Fish
LL₅₀, 96 (OECD 203) hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LL₅₀, 24 (OECD 202) hours: >10000 mg/l, Gammarus pulex
EL₅₀, 24 (OECD 202) hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants No information required.

Acute toxicity - microorganisms LL₅₀, : >100 mg/l, Micro-organisms

Acute toxicity - terrestrial No information required.

Chronic aquatic toxicity

Summary Based on available data 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 No information required.

Toxicity to soil No information required.

Toxicity to terrestrial plants No information required.

Zin bis [O, O-bis (2-ethylhexyl)] bis (di thiophosphate)

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

2,6-di-tert-butylphenol

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

HYDRO TECH HVI-E 32

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)
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Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: >10000 mg/l, Daphnia magna
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Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEL, 21 day: 10 mg/l, Daphnia magna NOEL, 72 hour: >=100 mg/l, Pseudokirchneriella subcapitata
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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)
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Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: >1000 mg/l, Daphnia magna
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Acute toxicity - aquatic plants	EL ₅₀ , 96 hour: >500 mg/l, Desmodesmus subspicatus
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Acute toxicity - microorganisms	EL ₅₀ , 3 hour: >10000 mg/l, Micro-organisms
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Bis(nonilfenil)amin

Acute aquatic toxicity

Acute toxicity - fish	LL ₅₀ , 96 hour: >100 mg/l, Danio rerio (Zebrafish)
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Acute toxicity - aquatic invertebrates	EL ₅₀ , 48 hour: >100 mg/l, Daphnia magna
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Acute toxicity - aquatic plants	EL ₅₀ , 72 hour: 100 mg/l, Desmodesmus subspicatus
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Acute toxicity - microorganisms	IC ₅₀ , 3 hour: >100 mg/l, Micro-organisms
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HYDRO TECH HVI-E 32

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

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.

HYDRO TECH HVI-E 32

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 baseoil

Persistence and degradability	OECD 301B:2-4 %,28 d ;OECD 301F:31 %,28 d
Phototransformation	Inconclusive data.
Stability (hydrolysis)	Inconclusive data.
Biodegradation	Inconclusive data.
Biological oxygen demand	Inconclusive data.
Chemical oxygen demand	Inconclusive data.

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

Biodegradation	OECD 301 D - <5%: The other substances in the product are not expected to be readily biodegradable. 27 day
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2,6-di-tert-butylphenol

Biodegradation	OECD TG 302 C - 12-24: % 28 day Not readily biodegradable.
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Damıtıklar (petrol), hidrojenle muamele edilmiş ağır parafinik

Biodegradation	OECD 301 F - 31 %: 28 day
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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Biodegradation	OECD 301 B - 13,4 %: 28 day
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Bis(nonilfenil)amin

Biodegradation	OECD 301 B - 1: % 28 day
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Polyglycol ether

Biodegradation	OECD 301 F - 79: % 28 day
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Calcium bis (dinonilnaftalinsülfonat)

Biodegradation	OECD 301 B - 14: % 29 day
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phenol, (tetrapropenyl) derivatives

Biodegradation	OECD 301 B - 6-25 %: 28 day
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12.3. Bioaccumulative potential

HYDRO TECH HVI-E 32

Bioaccumulative potential No information required.

Partition coefficient No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Bioaccumulative potential Inconclusive data.

Partition coefficient Inconclusive data.

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

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 baseoil

Mobility No data available.

Adsorption/desorption coefficient Inconclusive data.

Henry's law constant Inconclusive data.

Surface tension Inconclusive data.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

Ecological information on ingredients.

HYDRO TECH HVI-E 32

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Results of PBT and vPvB assessment Not relevant.

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

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.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

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.

HYDRO TECH HVI-E 32

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 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

HYDRO TECH HVI-E 32

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/>

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

Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)

Revision date

08/12/2020

Revision

1

Supersedes date

10/12/2018

HYDRO TECH HVI-E 32

SDS number	20438
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory 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.

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.