

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : TURDUS SHPD 15W-40  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use  
Use of the substance/mixture : Engine oil

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

ORLEN OIL Sp. z o.o.  
ul. Elbląska 135  
80-718 Gdańsk  
T +48 12 66 555 00 / +48 12 66 555 01

[centrala@orlenoil.pl](mailto:centrala@orlenoil.pl)

E-mail address of competent person responsible for the SDS : [msds@orlenoil.pl](mailto:msds@orlenoil.pl)

#### 1.4. Emergency telephone number

Emergency number : Emergency contact + 48 242010367, +48 242869509, +48242869556 (7:00-15:00)  
Emergency number 112

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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Component	
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; substance with national workplace exposure limit(s) (CZ, PL, SK)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25	≤ 87	Not classified
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626-26	0.78 – 1.25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
2,6-di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33	0.03 – 0.13	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched substance listed as REACH Candidate (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP))	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207-49	0.01 – 0.04	Repr. 1B, H360F Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	0 – 0	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 EUH071

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626-26	(6.25 ≤ C < 100) Skin Irrit. 2, H315 (10 ≤ C < 12.5) Eye Irrit. 2, H319 (12.5 ≤ C < 100) Eye Dam. 1, H318
2,6-di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822-33	(35 ≤ C < 100) Skin Irrit. 2, H315
maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	(0.001 ≤ C ≤ 100) Skin Sens. 1A, H317

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , or water spray or regular foam.
Unsuitable extinguishing media	: Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Storage temperature : -20 – 40 °C  
Packaging materials : Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

TURDUS SHPD 15W-40	
Czech Republic - Occupational Exposure Limits	
Local name	Oleje minerální (Minerální oleje)
PEL (OEL TWA)	5 mg/m <sup>3</sup> (aerosol)
NPK-P (OEL C)	10 mg/m <sup>3</sup> (aerosol)

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<b>TURDUS SHPD 15W-40</b>	
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Oleje mineralne wysokorafinowane z wyłączeniem cieczy obróbkowych
NDS (OEL TWA)	5 mg/m <sup>3</sup> frakcja wdychalna
Remark	Oleje mineralne wysokorafinowane to oleje z nieistotną zawartością WWA, które nie są sklasyfikowane jako rakotwórcze w UE. Frakcja wdychalna – frakcja aerozolu wnika przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Oleje minerálne
NPHV (OEL TWA)	1 mg/m <sup>3</sup> kvapalný aerosól, dymy
	5 ppm kvapalný aerosól, dymy
NPHV (OEL STEL)	3 mg/m <sup>3</sup> kvapalný aerosól, dymy
	15 ppm kvapalný aerosól, dymy
Remark	Limit sa vzťahuje na hydraulické a obrábacie kvapaliny a mazivá. Niektoré oleje môžu obsahovať polycyklické aromatické uhľovodíky a pri zahrievaní ich môžu uvoľňovať. Treba to brať do úvahy pri meraní a hodnotení rizika.
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
<b>Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)</b>	
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Oleje minerální (Minerální oleje)
PEL (OEL TWA)	5 mg/m <sup>3</sup> (aerosol)
NPK-P (OEL C)	10 mg/m <sup>3</sup> (aerosol)
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Oleje mineralne wysokorafinowane z wyłączeniem cieczy obróbkowych
NDS (OEL TWA)	5 mg/m <sup>3</sup> frakcja wdychalna
Remark	Oleje mineralne wysokorafinowane to oleje z nieistotną zawartością WWA, które nie są sklasyfikowane jako rakotwórcze w UE. Frakcja wdychalna – frakcja aerozolu wnika przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Oleje minerálne
NPHV (OEL TWA)	1 mg/m <sup>3</sup> kvapalný aerosól, dymy
	5 ppm kvapalný aerosól, dymy
NPHV (OEL STEL)	3 mg/m <sup>3</sup> kvapalný aerosól, dymy
	15 ppm kvapalný aerosól, dymy
Remark	Limit sa vzťahuje na hydraulické a obrábacie kvapaliny a mazivá. Niektoré oleje môžu obsahovať polycyklické aromatické uhľovodíky a pri zahrievaní ich môžu uvoľňovať. Treba to brať do úvahy pri meraní a hodnotení rizika.

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### Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)

Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
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#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

### Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts

#### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	25 mg/kg bodyweight/day
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Long-term - local effects, dermal	1.05 mg/cm <sup>2</sup>
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Long-term - systemic effects, inhalation	17.63 mg/m <sup>3</sup>
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#### DNEL/DMEL (General population)

Long-term - systemic effects, oral	2.5 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	4.35 mg/m <sup>3</sup>
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Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day
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Long-term - local effects, dermal	0.526 mg/cm <sup>2</sup>
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#### PNEC (Water)

PNEC aqua (freshwater)	0.1 mg/l
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PNEC aqua (marine water)	0.1 mg/l
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PNEC aqua (intermittent, freshwater)	1 mg/l
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PNEC aqua (intermittent, marine water)	1 mg/l
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#### PNEC (Sediment)

PNEC sediment (freshwater)	166.32 mg/kg dwt
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PNEC sediment (marine water)	166.32 mg/kg dwt
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#### PNEC (Soil)

PNEC soil	33.12 mg/kg dwt
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#### PNEC (STP)

PNEC sewage treatment plant	1000 mg/l
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### Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)

#### DNEL/DMEL (Workers)

Long-term - local effects, inhalation	5.4 mg/m <sup>3</sup> 8 hours
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#### DNEL/DMEL (General population)

Long-term - local effects, inhalation	1.2 mg/m <sup>3</sup> 24 hours
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#### PNEC (Oral)

PNEC oral (secondary poisoning)	9.33 mg/kg food mammalian
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#### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**

Wear recommended personal protective equipment.

**Personal protective equipment symbol(s):**



##### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: $\approx -28\text{ }^{\circ}\text{C}$
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: $\approx 236\text{ }^{\circ}\text{C}$
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: $17.6\text{ mm}^2/\text{s } 100^{\circ}\text{C}$
Solubility	: insoluble in water. Soluble in hydrocarbons.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at $50^{\circ}\text{C}$	: Not available

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Density	: 0.892 g/cm <sup>3</sup> 15°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)</b>	
LD50 dermal rat	> 2002 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
<b>phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)</b>	
LD50 oral rat	2100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1620 - 2730
LD50 dermal rabbit	≈ 15000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>2,6-di-tert-butylphenol (128-39-2)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)



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<b>maleic anhydride (108-31-6)</b>	
LD50 dermal rabbit	2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)</b>	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
<b>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)</b>	
NOAEL (oral, rat, 90 days)	160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
<b>2,6-di-tert-butylphenol (128-39-2)</b>	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
<b>maleic anhydride (108-31-6)</b>	
NOAEL (oral, rat, 90 days)	≈ 10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation, rat, vapour, 90 days)	≈ 0.0033 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (inhalation).
Aspiration hazard	: Not classified
<b>TURDUS SHPD 15W-40</b>	
Viscosity, kinematic	17.6 mm <sup>2</sup> /s 100°C
<b>Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)</b>	
Viscosity, kinematic	> 20.5 mm <sup>2</sup> /s 40°C
<b>11.2. Information on other hazards</b>	
<b>11.2.1. Endocrine disrupting properties</b>	
<b>Component</b>	
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

### 11.2.2. Other information

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.  
Not rapidly degradable

#### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

LC50 - Fish [1] 46 mg/l Test organisms (species): Cyprinodon variegatus

LC50 - Fish [2] 46 mg/l Test organisms (species):

#### phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)

EC50 - Crustacea [1] 0.037 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] 0.15 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2] 0.36 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

LOEC (chronic) 0.012 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 0.0037 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

#### 2,6-di-tert-butylphenol (128-39-2)

LC50 - Fish [1] 1.4 mg/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [1] 0.45 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] 3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

EC50 72h - Algae [2] 1.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

EC50 96h - Algae [1] 3.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

EC50 96h - Algae [2] 1.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

LOEC (chronic) 0.086 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 0.035 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

#### maleic anhydride (108-31-6)

LC50 - Fish [1] 75 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

LC50 - Fish [2] 75 mg/l Test organisms (species): Lepomis macrochirus

EC50 - Crustacea [1] 330 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] > 150 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

#### Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)

NOEC chronic fish > 1000 mg/l Oncorhynchus mykiss (Rainbow trout) 28 days

NOEC chronic crustacea 100 mg/l Daphnia magna (Water flea) 21 days

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### 12.2. Persistence and degradability

#### 2,6-di-tert-butylphenol (128-39-2)

Persistence and degradability	Not readily biodegradable.
Biodegradation	5 % OECD TG 301 B

#### Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)

Biodegradation	31.13 % 21 days
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### 12.3. Bioaccumulative potential

#### 2,6-di-tert-butylphenol (128-39-2)

Partition coefficient n-octanol/water (Log Kow)	4.5
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

#### Component

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)
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### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

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Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.1.2. National regulations

### Austria

Austrian National Regulations : Ordinance of the Federal Minister for Economic Affairs, the Federal Minister for Public Economy and Transport, the Federal Minister for Health, Sport and Consumer Protection and the Federal Minister for Labor and Social Affairs on the storage and filling of flammable liquids (Ordinance on Flammable Liquids - VbF).  
Ordinance of the Federal Minister for Agriculture, Forestry, Environment and Water Management on the authorization to purchase poisons, the obligation to record and on special protective measures when dealing with poisons (Poison Ordinance 2000).

### Belgium

Belgian National Regulations : Subject to Biocides closed circuit.

### Bulgaria

Bulgarian National Regulations : Law of protection from the harmful impact of the chemical substances and mixtures.  
Waste management law.  
Ordinance on the conditions and manner for storage of hazardous chemical substances and mixtures.  
Ordinance on the requirements for the treatment and transportation of waste oils and oil products.  
Ordinance on prevention of major accidents involving dangerous substances and limitation their consequences.  
Ordinance No 10 on protection of workers from risks involving exposure to carcinogens and mutagens during work.  
Ordinance No 13 on protection of workers from the risks related to exposure to chemical agents at work.  
Ordinance No.3 on the minimum requirements for the workers' safety and health protection in using personal protection means at the workplace.  
Ordinance No. 6 on the terms and conditions for granting permission for work of persons under 18 years of age.  
Ordinance No. RD-07-4 on improvement of the working conditions of pregnant workers and workers have recently given birth or nursing mothers.  
Health and Safety at Work Act.  
Environmental Protection Act.

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### Croatia

Croatian National Regulations : Chemicals Act, Regulation on classification, labelling and packaging of chemicals, Regulations on dangerous substances.  
Waste Act, Waste types regulations, Packaging Waste Regulation, Dangerous. exposure limits on the workplace and biological exposure limits, Regulation (EC) no. 1907/2006. Traffic Safety Act.  
Waste Regulation.

### Czech Republic

Czech National Regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals.  
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).  
Government Regulation no. 330/2023 Coll, amending Regulation no. 361/2007 Coll, governing the conditions of Health Protection at Work, as amended.  
Act no. 111/1994 Coll, on road transport and Decree no. 64/1987 Coll, on European Agreement concerning the International Carriage of Dangerous Goods (ADR), as amended, and related regulations.  
Act no. 541/2020 Coll, on waste and amendment of some other acts, as amended.  
Act no. 258/2000 Coll, on Public Health Care.  
Act no. 350/2011 Coll. on chemical substances and mixtures and amendment of some other acts (Chemical Act).

### France

Occupational diseases	
Code	Description
RG 66	Occupational rhinitis and asthma

### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).  
Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

### Hungary

Hungarian National Regulations : 25/2000. (IX.30.) Joint Provision of the Ministry of Health and Social and Family Affairs on the Occupational Safety in Chemistry.  
26/2000 (IX.30) Provision of the Ministry of Health on the occupational safety measures against carcinogenic substances and the prevention of health impairments caused by them.  
Act CLXXXV of 2012 on waste.  
Act XXV. of 2000 on the Safety in Chemistry, 44/2000. (XII. 27.) Provision of the Ministry of Health on detailed rules of procedures and activities related to hazardous substances and preparations.

### Latvia

Latvian National Regulations : Cabinet Regulation No. 302, adopted 19 April 2011 "Regulations Regarding Waste Classification and Properties Rendering Waste Hazardous".  
Cabinet Regulation No. 325, adopted 15 May 2007 "Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces".  
Cabinet Regulation No. 628, adopted 27 August 2013 "Requirements in Relation to Activities with Biocidal Products".  
Cabinet Regulation No. 494, adopted 7 August 2018 "Waste shipment accounting procedures".  
Cabinet Regulation No. 795, adopted 22 December 2015 "Procedures for Registration of Chemical Substances and Mixtures and Their Database".

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### Netherlands

- ABM category : Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioaccumulative potential/ toxicity or persistence)
- SZW-lijst van kankerverwekkende stoffen : Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts, phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched, Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; are listed
- SZW-lijst van mutagene stoffen : Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts, phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched, Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched is listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

- Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Norway

- Norwegian National Regulations : People who handle isocyanate-based products need to receive instructions on the characteristics of the compound and be familiar with the working methods which need to be adopted to avoid health hazards.  
People under the age of 18 may not work with this product at all.  
People who have chronic respiratory disorders should not work with isocyanate-based products.  
This training must be provided by a qualified staff.  
Only people with former education or training on the subject may be allowed to work with isocyanate-based products, manage or monitor such work.  
The user needs to be instructed on how to execute such work, on the dangers surrounding such a product and on the necessary safety instructions.

### Sweden

- Swedish National Regulations : This product is in compliance with Ordinance 1998:944.

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### Poland

#### Polish National Regulations

- : The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488).
- The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
- Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protective equipment (J. o L. No. 259, item 2173).
- Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
- Regulation of the Minister of Health of 10 August 2012 on the criteria and classification method of chemical substances and their mixtures (consolidated text: J. o L. 2015, item 208).
- Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
- Regulation of the Minister of Health of 20 April 2012 on labelling of hazardous substances and hazardous mixtures and certain mixtures (consolidated text: J. o L. 2015, item 450).
- Regulation of the Minister of Environment of 3 September 2014 on designs of packaging labelling (J. o L. 2014 item 1298).
- Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
- Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
- The ADR Agreement - Annex to the J. o L. of 26 April 2019 Government Statement of 18 February 2019 on the entry into force of the amendments to Annex A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2019, item 769).
- Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
- Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
- Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

### Romania

#### Romanian National Regulations

- : Government Decision 1093 of 2006 on establishing the minimum safety and health requirements for the protection of workers against the risks related to exposure to carcinogenic agents or mutagens in the workplace.
- Government Decision no. 1408 regarding the classification, packaging and labeling for dangerous substances.
- Government Decision no. 398 of 2010 regarding the application of Regulation (EC) 1272/2008.
- Government Decision no. 477 of 2009 regarding the establishment of the sanctions applicable for the violation of the provisions of Regulation (EC) no. 1.907/2006.
- Government Decision no. 937 of 2010 regarding the classification, packaging and labeling of dangerous preparations.
- Government Emergency Ordinance no. 122 of 2010 regarding the establishment of the sanctions applicable for the violation of the provisions of Regulation (EC) no. 1272/2008.
- Law no. 263 of 2005 regarding the modification and completion of Law no. 360 of 2003 regarding the regime of dangerous chemical substances and preparations.
- Law no. 349 of 2007 regarding the management of chemical substances amended by Law no. 249/2011 and through GEO no. 60/2013.
- Law no. 360 of 2003 regarding the regime of dangerous substances and preparations, completed by Law no. 263 of 2005 and Law no. 254 of 2011.



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### Slovenia

Slovenian National Regulations

- : Decision on the publishing of the Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
- Decree on waste management.
- Decree on packaging and packaging waste handling.
- Rules on the classification, packaging and labelling of dangerous preparations.
- Rules on the classification, packaging and labelling of dangerous substances.
- Rules on the protection of workers from the risks related to exposure to chemical substances at work.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- Chemicals Act (ZKem).

### Switzerland

Swiss National Regulations

- : Article 13 Order on the protection of maternity (RS 822.111.52):  
Pregnant women and breastfeeding mothers cannot come into contact with this product (this substance/this preparation) when working except where it has been established, on the basis of a risk analysis performed in accordance with Art. 63 OLT 1 (RS 822.111), that there is no concrete threat to the health of the mother or baby or that said threat can be excluded thanks to the suitable protection measures taken.
- Article 4, subparagraph 4 Order on the protection of young workers (OLT 5, RS 822.115) and Article 1, letter f Order of the DEFR on dangerous works for young workers (822.115.2):  
Young workers undergoing initial professional training cannot work with this product (this substance/this preparation) except where envisaged in the order of professional training to achieve the training purposes and if the training plan conditions and applicable age limits are respected. Young workers who do not undergo initial professional training cannot work with this product (this substance/this preparation). Workers of either sex aged under 18 years old are considered as young.
- Observe the Chemical Risk Reduction Ordinance (SR 814.81).

Storage class (LK)

- : LK 10/12 - Liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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Abbreviations and acronyms:	
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

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Full text of H- and EUH-statements:	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 3	H412	Calculation method

The classification complies with : ATP 12

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.