

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1/2/2024 Revision date: 4/5/2024 Version: 2.0

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

1.1. Product identifier

Product group

Product form		
Trade name		

: Mixture : ORLEN OIL ULTOR CI-4 20W-50

: 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 Use of the substance/mixture : Professional use,Consumer use : 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 BDO 000026343

E-mail address of competent person responsible for the SDS : 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	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.		

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2.3. Other hazards

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

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)

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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

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 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		

No additional information available

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 Unsuitable extinguishing media	Dry chemical, CO2, or water spray or regular foam.Strong water jet.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire : Toxic fumes may be released.		

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5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
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".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containr	nent and cleaning up
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	

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

Storage conditions Storage temperature Storage class (LGK, TRGS 510)		-20 – 40 °C	ell-ventilated pl n-combustible	ace. Keep cool. liquids		
Joint storage table	:	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
		LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
		LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
		LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
		LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13
Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for	:	LGK 2A, LG	GK 4.3, LGK 5 K 2B, LGK 3, L	.GK 4.1B, LGK 4	, ,	_GK 5.1B, LGK 5.2, L 0, LGK 11, LGK 12, L

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ORLEN OIL ULTOR CI-4 20W-50	
Czech Republic - Occupational Exposure Limits	
Local name	Oleje minerální (Minerální oleje)
PEL (OEL TWA)	5 mg/m ³ (aerosol)
NPK-P (OEL C)	10 mg/m³ (aerosol)
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Poland - Occupational Exposure Limits	
Local name	Oleje mineralne wysokorafinowane z wyłączeniem cieczy obróbkowych
NDS (OEL TWA)	5 mg/m³ frakcja wdychalna
Remark	Oleje mineralne wysokorafinowane to oleje z nieistotną zawartością WWA, które nie są sklasyfikowane jako rakotwórcze w UE. Frakcja wdychalna – frakcja aerozolu wnikająca 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.
Slovakia - Occupational Exposure Limits	•
Local name	Oleje minerálne
NPHV (OEL TWA)	1 mg/m³ kvapalný aerosól, dymy
	5 ppm kvapalný aerosól, dymy
NPHV (OEL STEL)	3 mg/m³ 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.)
Distillates (petroleum), hydrotreated heavy pa	araffinic; Baseoil— unspecified; (64742-54-7)
Czech Republic - Occupational Exposure Limits	
Local name	Oleje minerální (Minerální oleje)
PEL (OEL TWA)	5 mg/m³ (aerosol)
NPK-P (OEL C)	10 mg/m³ (aerosol)
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Poland - Occupational Exposure Limits	·
Local name	Oleje mineralne wysokorafinowane z wyłączeniem cieczy obróbkowych
NDS (OEL TWA)	5 mg/m³ frakcja wdychalna
Remark	Oleje mineralne wysokorafinowane to oleje z nieistotną zawartością WWA, które nie są sklasyfikowane jako rakotwórcze w UE. Frakcja wdychalna – frakcja aerozolu wnikająca 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.

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Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)		
Slovakia - Occupational Exposure Limits		
Local name	Oleje minerálne	
NPHV (OEL TWA)	1 mg/m³ kvapalný aerosól, dymy	
	5 ppm kvapalný aerosól, dymy	
NPHV (OEL STEL)	3 mg/m³ 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.)	

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

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)		
DNEL/DMEL (Workers)		
Long-term - local effects, inhalation	5.4 mg/m³ 8 hours	
DNEL/DMEL (General population)		
Long-term - local effects, inhalation	1.2 mg/m³ 24 hours	
PNEC (Oral)		
PNEC oral (secondary poisoning)	9.33 mg/kg food mammalian	

8.1.5. Control banding

No additional information available

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 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

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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	: ≈ -28 °C
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: ≈ 236 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 17.6 mm²/s 100°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°C	: Not available
Density	: 0.892 g/cm³ 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.

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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 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) 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) phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5) 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) 2,6-di-tert-butylphenol (128-39-2) LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) maleic anhydride (108-31-6) 2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline LD50 dermal rabbit 402 (Acute Dermal Toxicity) Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7) 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 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) 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)

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2,6-di-tert-butylphenol (128-39-2)		
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))	
maleic anhydride (108-31-6)		
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	
ORLEN OIL ULTOR CI-4 20W-50		
Viscosity, kinematic	17.6 mm²/s 100°C	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)		
Viscosity, kinematic	> 20.5 mm²/s 40°C	

11.2. Information on other hazards

11.2.1. 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)

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Phosphorodithioic acid, mixed 0.0-bis(1.3-dimethylbutyl and iso-Pr) esters, zinc salts (8460		
Not rapidly degradable		
(chronic)		
Hazardous to the aquatic environment, long-term	: Harmful to aquatic life with long lasting effects.	
(acute)		
Hazardous to the aquatic environment, short-term	Not classified	
Ecology - general	: Harmful to aquatic life with long lasting effects.	

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'	

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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 he	avy 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	
12.2 Porsistones and dogradability		

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	

12.3. Bioaccumulative potential

2,6-di-tert-butylphenol (128-39-2)	
Partition coefficient n-octanol/water (Log Kow)	4.5

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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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)	

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG)	: Not applicable : 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
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
ΙΑΤΑ	
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

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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)

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)

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15.1.2. National regulations

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.
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).

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France		
Occupational diseases		
Code Description	Description	
RG 66 Occupational rhinitis ar	nd asthma	
Germany		
Employment restrictions Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). 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". 	
Netherlands		
ABM category	: Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioacumulative potential/ toxicity c 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 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 None of the components are listed phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched is listed None of the components are listed 	
Denmark		
Classification remarks Danish National Regulations	 Emergency management guidelines for the storage of flammable liquids must be followed Pregnant/breastfeeding women working with the product must not be in direct contact with the product 	

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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.
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 1663 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 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 Gen

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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. 1.272/2008. Law no. 263 of 2005 regarding the modification and completion of Law no. 360 of 2003 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.
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 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 (EC) 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

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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	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	

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Full text of H- and I	EUH-statements:	
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.	
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
L	•	

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.