

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 22/10/2019 Revision date: 16/10/2023 Supersedes version of: 22/10/2019 Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture

Product name : 45370 - ENGINE OIL D MX IV 20W-50

Product code : 45370

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Function or use category : Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

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

77 Lubricants B.V. NL- 1761 JA The Netherlands T +31 (0)78 6527652

technical@77lubricants.nl - www.77lubricants.nl

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

#### **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, H412

Category 3

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

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 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, (tetrapropenyl) derivatives (74499-35-7)	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, (tetrapropenyl) derivatives(74499-35-7)	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 substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 45 – < 55	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	≥ 25 – < 45	Not classified
Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-	≥3-<5	Not classified
Distillates (petroleum), solvent-refined heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	EC-No.: 265-090-8 EC Index-No.: 649-454-00-7 REACH-no: 01-2119488706-	≥ 0.3 – < 1	Not classified
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (CZ, DE, SK)	CAS-No.: 84605-29-8 EC-No.: 283-392-8 REACH-no: 01-2119493626- 26	≥ 0.1 – < 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (DE, SK)	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	≥ 0.1 – < 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Distillates (petroleum), solvent-dewaxed light paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-56-9 EC-No.: 265-159-2 EC Index-No.: 649-469-00-9 REACH-no: 01-2119480132-	< 0.3	Asp. Tox. 1, H304
Calcium carbonate substance with national workplace exposure limit(s) (FR, GB, HU, IE, LV, PL, CH)	CAS-No.: 471-34-1 EC-No.: 207-439-9	< 0.3	Not classified
phenol, (tetrapropenyl) derivatives 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.: 74499-35-7 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9	< 0.1	Repr. 1B, H360F Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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			
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	(15 ≤ C < 100) Skin Irrit. 2, H315 (15 ≤ C < 20) Eye Irrit. 2, H319 (20 ≤ C < 100) Eye Dam. 1, H318			

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 : Water spray. Dry powder. Foam. Carbon dioxide.

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Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

General measures : Avoid spilling the product, as this might cause falls.

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".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

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 : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear

personal protective equipment.

Handling temperature : ≤ 40 °C

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 : Provide local exhaust or general room ventilation.

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature :  $\leq$  40 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container. Store in a closed container.

## 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

Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)			
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	5 mg/m³			
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	5 mg/m³			
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	5 mg/m³			
IOEL STEL	10 mg/m³			
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	5 mg/m³			
WEL STEL (OEL STEL)	10 mg/m³			
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)			
EU - Indicative Occupational Exposure Limit (IOEL)	EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³			
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	5 mg/m³			
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)				
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	5 mg/m³			
IOEL STEL	10 mg/m³			
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	5 mg/m³			
WEL STEL (OEL STEL)	10 mg/m³			
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)				
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	5 mg/m³ ACGIH TLV (inhalable fraction)			
Calcium carbonate (471-34-1)				
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	4 mg/m³			

## 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

No additional information available

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#### 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:

Gloves. Safety glasses. Protective clothing.

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







#### 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

Eye protection				
Туре	Field of application	Characteristics	Standard	
Safety glasses	Droplet	clear	EN 166	

## 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

## Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

#### 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 : Brown.
Odour : characteristic.
Odour threshold : Not available
Melting point : Not applicable

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Freezing point : -33 °C (ASTM D7346)
Boiling point : Not available
Flammability : Non flammable.
Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : > 201 °C (ASTM D92)

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available

Viscosity, kinematic : 158 mm²/s @ 40°C (ASTM D7042)

Solubility : insoluble in water.

Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : Not available

Vapour pressure at 50°C : Not available

Density : 882 kg/m³ @ 15°C (ASTM D4052)

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

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LD50 oral (rat) > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
LD50 dermal (rabbit) > 2000 mg/kg 402 Acute Dermal Toxicity Test		

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Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)
LC50 inhalation (rat) (mg/l) LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5000 mg/l/4h > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
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Distillates (petroleum), solvent-dewaxed heav	
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
Distillates (petroleum), hydrotreated light para	
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
Phosphorodithioic acid, mixed O,O-bis(1,3-die	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)
LD50 oral (rat)	3100 mg/kg OECD 401
LD50 dermal (rat)	> 2002 mg/kg OECD 402
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.3 mg/l/4h OECD 403
Phosphorodithioic acid, mixed O,O-bis(2-ethy	rlhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)
LD50 oral (rat)	3080 mg/kg OECD Guideline 401
LD50 dermal (rabbit)	> 20000 mg/kg OECD Guideline 402
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.3 mg/l/4h OECD Guideline 403
Distillates (petroleum), solvent-refined heavy	paraffinic (64741-88-4)
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg
LC50 inhalation (rat) (mg/l)	> 5000 mg/m³
LC50 inhalation (rat) (Vapours - mg/l/4h)	5.53 mg/l/4h
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)
LD50 oral (rat)	> 5000 mg/kg bodyweight
LD50 dermal (rat)	> 5000 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.18 mg/l/4h
phenol, (tetrapropenyl) derivatives (74499-35-	7)
LD50 oral (rat)	2200 mg/kg 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	15000 mg/kg 402 Acute Dermal Toxicity Test
Calcium carbonate (471-34-1)	
LD50 oral (rat)	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal (rat)	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 inhalation (rat) (mg/l)	> 3 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

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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

STOT-repeated exposure :	Not classified				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)					
AEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408					
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)					
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight					
Distillates (petroleum), hydrotreated light par	affinic (64742-55-8)				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)				
Phosphorodithioic acid, mixed O,O-bis(1,3-di	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)				
NOAEL (subacute, oral, animal/male, 28 days)	160 mg/kg bodyweight				
Phosphorodithioic acid, mixed O,O-bis(2-ethy	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)				
NOAEL (subacute, oral, animal/female, 28 days)	125 mg/kg bodyweight 407 Repeated Dose 28-day Oral Toxicity Study in Rodents				
Distillates (petroleum), solvent-dewaxed light	Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)				
Calcium carbonate (471-34-1)					
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)				
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)				
Aspiration hazard :	Not classified				
45370 - ENGINE OIL D MX IV 20W-50					
Viscosity, kinematic	158 mm²/s @ 40°C (ASTM D7042)				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)					
Viscosity, kinematic 98 (98 – 108) mm²/s @40°C					

Viscosity, kinematic	158 mm²/s @ 40°C (ASTM D7042)				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)					
Viscosity, kinematic	98 (98 – 108) mm²/s @40°C				
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)					
Viscosity, kinematic	150 (1.99 – 847) mm²/s @40°C				
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)					
Viscosity, kinematic < 20.5 mm²/s @40°C					
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)					
Viscosity, kinematic 407.6 mm²/s					
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)					
Viscosity, kinematic 28.51 mm²/s @40°C					

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Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)		
Viscosity, kinematic 1.99 – 847 mm²/s Temp.: '40°C		

## 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Component	
phenol, (tetrapropenyl) derivatives(74499-35-7)	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

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

not rapidly degradable				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat			
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)			
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)			
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)			
Distillates (petroleum), solvent-dewaxed heav	ry paraffinic (64742-65-0)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (14d)			
NOEC chronic crustacea	> 10 mg/l Daphnia magna (21d)			
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata (72h)			
Distillates (petroleum), hydrotreated light para	Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat			
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)			
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)			
NOEC chronic algae	NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)			
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)				
LC50 - Fish [1] 4.5 mg/l Oncorhynchus mykiss				

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hosphorodithioic acid, mixed O,O-bis(1,3-c	limethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
LC50 - Fish [2] 46 mg/l Cyprinodon variegatus				
EC50 - Crustacea [1]	23 mg/l Water flea (Daphnia magna) (OECD 202)			
EC50 72h - Algae [1]	21 mg/l Scenedesmus quadricauda			
NOEC chronic crustacea	0.4 mg/l Daphnia magna (21d) (OECD 211)			
NOEC chronic algae	10 mg/l Scenedesmus quadricauda (72h)			
hosphorodithioic acid, mixed O,O-bis(2-eth	nylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
.C50 - Fish [1]	4.5 mg/l Oncorhynchus mykiss			
EC50 - Crustacea [1]	> 5.4 mg/l Daphnia magna			
EC50 96h - Algae [1]	> 2.1 mg/l Selenastrum capricornutum			
NOEC chronic crustacea	0.4 mg/l Daphnia magna (21d)			
NOEC chronic algae	1 mg/l Selenastrum capricornutum (96h)			
Distillates (petroleum), solvent-refined heav	y paraffinic (64741-88-4)			
.C50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)			
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)			
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)			
Distillates (petroleum), solvent-dewaxed ligh	nt paraffinic (64742-56-9)			
.C50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			
NOEC chronic fish	≥ 1000 mg/l Oncorhynchus mykiss			
NOEC chronic crustacea	10 mg/l Daphnia magna			
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata			
ohenol, (tetrapropenyl) derivatives (74499-3	5-7)			
.C50 - Fish [1]	40 mg/l Pimephales promelas			
EC50 - Crustacea [1]	0.037 mg/l Daphnia magna			
EC50 72h - Algae [1]	0.36 mg/l Desmodesmus subspicatus			
NOEC chronic crustacea	0.0037 mg/l Daphnia magna (21d)			
NOEC chronic algae	0.07 mg/l Desmodesmus subspicatus (72h)			
Calcium carbonate (471-34-1)				
EC50 72h - Algae [1]	> 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)			
2.2. Persistence and degradability				

## 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Persistence and degradability Not readily biodegradable.		
Biodegradation	31 % OECD TG 301 F (28d)	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)				
Biodegradation	31 % OECD 301F (28d)			
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
Biodegradation	31 % OECD TG 301 F (28d)			
Phosphorodithioic acid, mixed O,O-bis(1,3-di	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	1.5 % OECD TG 301 B (28d)			
Phosphorodithioic acid, mixed O,O-bis(2-ethy	/lhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	1.5 % OECD 301B (28d)			
Distillates (petroleum), solvent-refined heavy	paraffinic (64741-88-4)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	31 % OECD 301F (28d)			
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	31 % OECD 301F			
phenol, (tetrapropenyl) derivatives (74499-35-	7)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	6 – 25 % OECD 301B (28d)			
12.3. Bioaccumulative potential				
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)			
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6			
Distillates (petroleum), solvent-dewaxed heav	Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Bioconcentration factor (BCF REACH)	260			
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)			
Partition coefficient n-octanol/water (Log Pow)	> 6			
Phosphorodithioic acid, mixed O,O-bis(1,3-di	methylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
Partition coefficient n-octanol/water (Log Kow)	0.56			
Phosphorodithioic acid, mixed O,O-bis(2-ethy	rlhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
Partition coefficient n-octanol/water (Log Pow)	8.87 @ 20°C			
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)				
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6			
phenol, (tetrapropenyl) derivatives (74499-35-7)				
Bioconcentration factor (BCF REACH)	289			
Partition coefficient n-octanol/water (Log Pow)	7.14 @ 25°C			
Bioaccumulative potential	Bioaccumulative potential.			

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## 12.4. Mobility in soil

Ecology - soil Adsorbs into the soil.

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

Ecology - soil Adsorbs into the soil.

## 12.5. Results of PBT and vPvB assessment

Co				

phenol, (tetrapropenyl) derivatives (74499-35-7)

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

## 12.6. Endocrine disrupting properties

#### Component

phenol, (tetrapropenyl) derivatives(74499-35-7)

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.

European List of Waste (LoW, EC 2000/532)

: 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID n	14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippin	g name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard o	14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

## 14.6. Special precautions for user

#### **Overland transport**

Not applicable

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#### 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 in concentrations ≥ 0.1 % or SCL: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 74499-35-7)

#### **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

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes				
Section Changed item Change Comments				
	Supersedes	Added		

## Safety Data Sheet

Indication of changes				
Section	Changed item	Change	Comments	
	Revision date	Modified		
1.1	Name	Modified		
3	Composition/information on ingredients	Modified		
6.1	General measures	Added		
9.1	Viscosity, kinematic	Modified		
9.1	Density	Modified		
9.1	Flash point	Modified		
13.1	European List of Waste (LoW, EC 2000/532)	Added		

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		
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		

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Abbreviations and acronyms:		
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:		
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	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H360F	May damage fertility.	
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	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Safety Data Sheet (SDS), EU

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.