

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/03/2016 Revision date: 12/01/2024 Supersedes version of: 25/04/2023 Version: 5.6

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

1.1. Product identifier

Product form Product name

Product code

:	Mixture
:	42040 - MOTOR OIL SYNTHETIC 5W-40
:	42040

: Lubricants and additives

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 Function or use category

: Industrial use, Professional use, Consumer use

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

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)	: P101 - If medical advice is needed, have product container or label at hand.
	P102 - Keep out of reach of children.
	P103 - Read carefully and follow all instructions.
	P273 - Avoid release to the environment.
	P501 - Dispose of contents and 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

Other hazards which do not result in classification

: Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.

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]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878- 16	≥ 55 – < 75	Asp. Tox. 1, H304
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	≥ 15 – < 25	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- 29	≥ 3 – < 10	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	≥ 0.3 – < 3	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50	REACH-no: 01-2119524004-	≥ 0.3 – < 3	Aquatic Chronic 4, H413
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 – < 3	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	≥ 0.3 – < 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) substance with national workplace exposure limit(s) (DE, SK)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	≥ 0.3 – < 1	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- 48	≥ 0.1 – < 1	Asp. Tox. 1, H304
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
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	(50 ≤ C < 80) Eye Irrit. 2, H319 (80 ≤ 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 First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center or a doctor if you feel unwell.

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4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after inhalation	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after skin contact	: After adequate first aid, no further treatment is required unless symptoms reappear.
Symptoms/effects after eye contact	: After adequate first aid, no further treatment is required unless symptoms reappear.

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	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a water jet since it may cause the fire to spread.	
5.2. Special hazards arising from the subst	tance or mixture	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release r	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Avoid spilling the product, as this might cause falls.
6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	Wear recommended personal protective equipment.Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection. 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 contai	nment 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.

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SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
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, in	cluding any incompatibilities
Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: ≤40 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
	: Keep only in original container. Store in a closed 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

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	TWA (OEL TWA) [1] 5 mg/m ³	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
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	Distillates (petroleum), solvent-dewaxed heavy 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), solvent-dewaxed light paraffinic (64742-56-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m ³ ACGIH TLV (inhalable fraction)	

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Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³
IOEL STEL	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5 mg/m³
WEL STEL (OEL STEL)	10 mg/m ³
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 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

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

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

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Particle filter. EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and ch	9.1. Information on basic physical and chemical properties		
Physical state	: Liquid		
Colour	: Brown.		
Odour	: characteristic.		
Odour threshold	: Not available		
Melting point	: Not applicable		
Freezing point	: -36 °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		
рН	: Not available		
Viscosity, kinematic	: 84 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	: 851 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

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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

Strong oxidizing agents.

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 (dermal) :	Not classified Not classified Not classified	
Distillates (petroleum), hydrotreated heavy pa	raffinic (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	
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h	
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test	
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)	
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	
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)	
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	
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50		
LD50 oral (rat)	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal (rabbit)	> 4000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 inhalation (rat) (mg/l)	> 1.67 mg/l OECD 403 (1h)	

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Phosphorodithioic acid, mixed O,O-bis(1,3-di	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
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)
LD50 oral (rat)	3100 mg/kg bodyweight OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal (rabbit)	> 5000 mg/kg OECD Guideline 402 (Acute Dermal Toxicity)
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
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
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)
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) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
Skin corrosion/irritation :	Not classified
, .	Not classified Not classified
	Not classified
	Not classified
	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Distillates (petroleum), hydrotreated light para	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)
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight

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	branched olefins (C12 rich) derived from propene oligomerization, ized including distillates (petroleum), hydrotreated, solvent-refined, solvent- y paraffinic C15-C50	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
NOAEL (dermal, rat/rabbit, 90 days)	≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	
Phosphorodithioic acid, mixed O,O-bis(1,3-d	imethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
NOAEL (subacute, oral, animal/male, 28 days)	160 mg/kg bodyweight	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiopho	sphate) (4259-15-8)	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)	
Distillates (petroleum), solvent-dewaxed ligh	t paraffinic (64742-56-9)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight	
Aspiration hazard :	Not classified	
42040 - MOTOR OIL SYNTHETIC 5W-40		
Viscosity, kinematic	84 mm²/s @ 40°C (ASTM D7042)	
Distillates (petroleum), hydrotreated heavy p	araffinic (64742-54-7)	
Viscosity, kinematic	98 (98 – 108) mm²/s @40°C	
Distillates (petroleum), hydrotreated light pa	raffinic (64742-55-8)	
Viscosity, kinematic	< 20.5 mm²/s @40°C	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
Viscosity, kinematic	150 (1.99 – 847) mm²/s @40°C	
	branched olefins (C12 rich) derived from propene oligomerization, ized including distillates (petroleum), hydrotreated, solvent-refined, solvent- y paraffinic C15-C50	
Viscosity, kinematic	206820 mm²/s Temp.: '20°C' Parameter: 'cSt'	
Phosphorodithioic acid, mixed O,O-bis(1,3-d	imethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
Viscosity, kinematic	407.6 mm²/s	
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiopho	sphate) (4259-15-8)	
Viscosity, kinematic	131.6 mm²/s @40°C	
Distillates (petroleum), solvent-dewaxed ligh	t paraffinic (64742-56-9)	
Viscosity, kinematic	1.99 – 847 mm²/s Temp.: '40°C	
Distillates (petroleum), solvent-refined heavy	v paraffinic (64741-88-4)	
Viscosity, kinematic	28.51 mm²/s @40°C	
Lubricating oils (petroleum), C15-30, hydrotr	eated neutral oil-based (72623-86-0)	
Viscosity, kinematic	1.99 – 847 mm²/s 40°C	

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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		
	Harmful to aquatic life with long lasting effects. Not classified	
Hazardous to the aquatic environment, long-term : (chronic)	Harmful to aquatic life with long lasting effects.	
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), 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	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)	
Distillates (petroleum), solvent-dewaxed heav	y 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)	
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50		
LC50 - Fish [1]	> 1000 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna	
EC50 96h - Algae [1]	> 500 mg/l Pseudokirchneriella subcapitata	

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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	
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)	
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	sphate) (4259-15-8)	
LC50 - Fish [1]	4.4 mg/l Oncorhynchus mykiss	
EC50 - Crustacea [1]	75 mg/l Daphnia magna	
EC50 72h - Algae [1]	410 mg/l Desmodesmus subspicatus	
NOEC chronic crustacea	0.4 mg/l Daphnia magna (21d)	
NOEC chronic algae	220 mg/l Scenedesmus quadricauda (72h)	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
LC50 - 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	
phenol, (tetrapropenyl) derivatives (74499-35-	7)	
LC50 - 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)	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)		
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)	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)		
Lubricating oils (petroleum), C15-30, hydrotre		
LC50 - Fish [1]	> 100 mg/l Pimephales promelas	
	> 100 mg/l Pimephales promelas> 10000 mg/l Daphnia magna	
LC50 - Fish [1]		
LC50 - Fish [1] EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	

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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)	
Distillates (petroleum), hydrotreated light pa	raffinic (64742-55-8)	
Biodegradation	31 % OECD TG 301 F (28d)	
Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)	
Biodegradation	31 % OECD 301F (28d)	
	branched olefins (C12 rich) derived from propene oligomerization, ized including distillates (petroleum), hydrotreated, solvent-refined, solvent- y paraffinic C15-C50	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	13.4 % OECD 301B (28d)	
Phosphorodithioic acid, mixed O,O-bis(1,3-d	imethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1.5 % OECD TG 301 B (28d)	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiopho	sphate) (4259-15-8)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	< 5 % OECD TG 301 D (28d)	
Distillates (petroleum), solvent-dewaxed ligh	t 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)	
Distillates (petroleum), solvent-refined heavy	/ paraffinic (64741-88-4)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % OECD 301F (28d)	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % 28 d OECD 301F	
12.3. Bioaccumulative potential		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
Partition coefficient n-octanol/water (Log Pow)	> 6	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)	

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and the second	branched olefins (C12 rich) derived from propene oligomerization,		
	zed including distillates (petroleum), hydrotreated, solvent-refined, solvent-		
dewaxed, or catalytic dewaxed, light or heavy	v paraffinic C15-C50		
Bioconcentration factor (BCF REACH) 2.2			
Partition coefficient n-octanol/water (Log Pow) 9.5			
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		
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)		
Partition coefficient n-octanol/water (Log Kow) 3.6			
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.		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)			
Partition coefficient n-octanol/water (Log Pow)	3.9 - 6		
12.4. Mobility in soil			
	branched olefins (C12 rich) derived from propene oligomerization, zed including distillates (petroleum), hydrotreated, solvent-refined, solvent- v paraffinic C15-C50		

dewaxed, or catalytic dewaxed, light or heavy paralinic C15-C50			
Mobility in soil	361500000000 Source: EPISUITE		
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)			
Ecology - soil Adsorbs into the soil.			
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)			
Ecology - soil	Adsorbs into the soil.		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)			
Ecology - soil	Adsorbs into the soil.		
12.5. Results of PBT and vPvB assessment			
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		
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

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SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW, EC 2000/532) HP Code	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 13 02 06* - synthetic engine, gear and lubricating oils HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)	·,		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				·
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	n available	11		

14.6. Special precautions for user

Overland transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport Not regulated

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 in concentrations \geq 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
	Revision date	Modified	
	Supersedes	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
9.1	Colour	Modified	
12.1	Ecology - general	Modified	
13.1	European List of Waste (LoW, EC 2000/532)	Modified	

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	
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	
РВТ	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:	
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 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
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.

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Full text of H- and EUH-statements:	
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.
H413	May cause long lasting harmful effects to aquatic life.
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.