

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 24-3-2021 Revision date: 6-3-2024 Supersedes version of: 3-10-2022 Version: 1.2

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Armado Syth FE 5W-20
Product code	: 01.20.85
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture Function or use category : Industrial use, Professional use, Consumer use

- : Engine oil
 - : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon-Oil B.V. Dollegoorweg 15 NL 7602 EC Almelo Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	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]

Not classified

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]

EUH-statements

: EUH208 - Contains C14-16-18 Alkyl phenol. May produce an allergic reaction. EUH210 - Safety data sheet available on request.

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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	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0), zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0), zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

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 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889- 13	50 – 80	Asp. Tox. 1, H304
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl)propionate	CAS-No.: 125643-61-0 EC-No.: 406-040-9 EC Index-No.: 607-530-00-7 REACH-no: 01-0000015551- 76	1 – 5	Aquatic Chronic 4, H413
Distillates (petroleum), solvent-dewaxed light paraffinic substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-56-9 EC-No.: 265-159-2 EC Index-No.: 649-469-00-9 REACH-no: 01-2119480132- 48	0,1 – 2,5	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	0,1 – 2,5	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic (Note L)	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	0,1 – 2,5	Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Paraffin oils (petroleum), catalytic dewaxed heavy (Note L)	CAS-No.: 64742-70-7 EC-No.: 265-174-4 REACH-no: 01-2119487080- 42	0,1 – 2,5	Asp. Tox. 1, H304
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	CAS-No.: 93819-94-4 EC-No.: 298-577-9 REACH-no: 01-2119543726- 33	0,3 – 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
C14-16-18 Alkyl phenol	EC-No.: 931-468-2 REACH-no: 01-2119498288- 19	< 0,3	Skin Sens. 1B, H317 STOT RE 2, H373

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	CAS-No.: 93819-94-4 EC-No.: 298-577-9 REACH-no: 01-2119543726- 33	(6,25 ≤ C ≤ 100) Skin Irrit. 2, H315 (10 ≤ C < 12,5) Eye Irrit. 2, H319 (12,5 ≤ C ≤ 100) Eye Dam. 1, H318

Comments

: The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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.

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 measu	res
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from th	e substance or mixture
Fire hazard	: Combustible liquid.

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Hazardous decomposition products in case of fire	: Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
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 measures		
6.1. Personal precautions, protect	ive 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 conta	inment and cleaning up
Methods for cleaning up Other information	: Take up liquid spill into absorbent material. : 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 storag	e
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions Storage temperature	 Store in a well-ventilated place. Keep cool. < 40 °C
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

Armado Syth FE 5W-20	
EU - Indicative Occupational Exposure Limit (IOEL)	
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m ³ - ACGIH TLV (inhalable fraction).

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

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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
Freezing point	: -39 °C - ASTM D5950 (pour point)
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 218 °C - ASTM D92 (COC)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 47,2 mm²/s (40 °C) - ASTM D7042
Solubility	: Water: Insoluble / Slightly miscible
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0,859 kg/l (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. Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

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

11.1. Information on hazard classes a	s defined in Regulation (EC) No 1272/2008
cute toxicity (oral) cute toxicity (dermal) cute toxicity (inhalation)	 Not classified Not classified Not classified
Lubricating oils (petroleum), C20-50,	hydrotreated neutral oil-based (72623-87-1)
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
_C50 Inhalation - Rat	5,53 mg/l/4h (OECD 403 method)
reaction mass of isomers of: C7-9-all	cyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)
_D50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
zinc bis[O-(6-methylheptyl)] bis[O-(se	ec-butyl)] bis(dithiophosphate) (93819-94-4)
_D50 oral rat	2600 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
_D50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Derma Toxicity), Remarks on results: other:
_C50 Inhalation - Rat	> 2 mg/l (1h) - OECD403
Distillates (petroleum), hydrotreated	heavy paraffinic (64742-54-7)
.D50 oral rat	> 5000 mg/kg
_D50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5,53 mg/l/4h
Distillates (petroleum), solvent-dewa	xed light paraffinic (64742-56-9)
_D50 oral rat	> 5000 mg/kg
D50 dermal rabbit	> 5000 mg/kg
_C50 Inhalation - Rat (Dust/Mist)	5,53 mg/l/4h
Distillates (petroleum), solvent-dewa	xed heavy paraffinic (64742-65-0)
_D50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
C14-16-18 Alkyl phenol	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:
kin corrosion/irritation	: Not classified

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6 5	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity : STOT-single exposure :	Not classified Not classified	
	Not classified	
Lubricating oils (petroleum), C20-50, hydrotre		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day	
NOAEL (subchronic, oral, animal/male, 90 days)	≥ 2000 mg/kg bodyweight	
NOAEL (subchronic, oral, animal/female, 90 days)	≥ 2000 mg/kg bodyweight	
Distillates (petroleum), solvent-dewaxed heav	/y paraffinic (64742-65-0)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	
C14-16-18 Alkyl phenol		
STOT-repeated exposure	May cause damage to organs (liver) through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
Armado Syth FE 5W-20		
Viscosity, kinematic	47,2 mm²/s (40 °C) - ASTM D7042	
Lubricating oils (petroleum), C20-50, hydrotre	eated neutral oil-based (72623-87-1)	
Viscosity, kinematic	< 20,5 mm²/s (40 °C) - ASTM D7042	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Viscosity, kinematic	6,2 mm²/s	
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)	
Viscosity, kinematic	< 20,5 mm²/s	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
Viscosity, kinematic	< 20,5 mm²/s	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
Viscosity, kinematic	< 20,5 mm²/s @40°C	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	
C14-16-18 Alkyl phenol		
Viscosity, kinematic	52 mm²/s (40°C) 5,4 mm²/s (100°C) [ASTM D445]	
Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7)		
Viscosity, kinematic	< 20,5 mm²/s	
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Paraffin oils (petroleum), catalytic dewaxed heavy (64742-70-7)	
Hydrocarbon Yes	
Aliphatic, alicyclic or aromatic hydrocarbon Yes	
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

eff Hazardous to the aquatic environment, short–term : No (acute) Hazardous to the aquatic environment, long–term : No (chronic)	he product is not considered harmful to aquatic organisms nor to cause long-term adverse ifects in the environment. ot classified ot classified	
(acute) Hazardous to the aquatic environment, long-term No (chronic)		
(chronic)	ot classified	
Lubricating oils (petroleum) C20-50 hydrotreat		
Labricating one (perioreani), ole oo, nyaroreat	ted neutral oil-based (72623-87-1)	
LC50 - Fish [1] >	• 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
LC50 - Other aquatic organisms [1] >	• 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
NOEC (acute) ≥	: 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)	
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di	i-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LC50 - Fish [1] >	• 74 mg/l Brachydanio rerio (zebra-fish) - (OECD 203 method)	
EC50 - Crustacea [1]	• 100 mg/l Daphnia magna (Water flea) - (OECD 202 method)	
EC50 72h - Algae [1] >	• 3 mg/l Desmodesmus subspicatus - (OECD 201 method)	
NOEC (acute) ≥	: 3 mg/l (Desmodesmus subspicatus, 72h) (OECD 201 method)	
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] b	ois(dithiophosphate) (93819-94-4)	
LC50 - Fish [1] 4	l,5 mg/l 96 h (Oncorhynchus mykiss) [OECD 203]	
EC50 - Crustacea [1] 5	5,4 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1] 2	2,1 mg/l Test organisms (species): other:	
EC50 72h - Algae [2] 2	2 mg/l Test organisms (species): other:	
EC50 96h - Algae [1] 2	2,1 mg/l Test organisms (species): other:	
EC50 96h - Algae [2] 2	2 mg/l Test organisms (species): other:	
ErC50 algae 2	2,1 mg/l 96 h (Selenastrum capricornutum) [OECD 201]	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LC50 - Fish [1] >	• 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
EC50 - Crustacea [1]	• 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
EC50 72h - Algae [1] >	• 100 mg/l	
NOEC (acute) ≥	2 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)	
NOEC chronic crustacea 1	0 mg/l (Daphnia magna, 21d) (OECD 211 method)	
C14-16-18 Alkyl phenol		
LC50 - Fish [1] >	• 100 mg/l	
EC50 - Crustacea [1]	• 100 mg/l Test organisms (species): Daphnia magna	

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C14-16-18 Alkyl phenol		
EC50 72h - Algae [1]	≥ 100 mg/l	
12.2. Persistence and degradability		
Armado Syth FE 5W-20		
Persistence and degradability	Not rapidly degradable	
Lubricating oils (petroleum), C20-50, hydrotre	ated neutral oil-based (72623-87-1)	
Persistence and degradability	Not rapidly degradable	
Biodegradation	31 % (28d) (OECD 301F method)	
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Persistence and degradability	Not readily biodegradable.	
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]	bis(dithiophosphate) (93819-94-4)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1,5 % 28 d - 10mg/l [OECD 301 B]	
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)	
Persistence and degradability	Not rapidly degradable	
Biodegradation	31 % (28d) (OECD 301F method)	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
Persistence and degradability	Potentially biodegradable.	
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)	
Persistence and degradability	Not rapidly degradable	
C14-16-18 Alkyl phenol		
Persistence and degradability	Not rapidly degradable	
Paraffin oils (petroleum), catalytic dewaxed he	eavy (64742-70-7)	
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Bioconcentration factor (BCF REACH)	260 (Oncorhynchus mykiss, 35d) (OECD 305 method)	
Partition coefficient n-octanol/water (Log Pow)	9,2	
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)]	bis(dithiophosphate) (93819-94-4)	
Partition coefficient n-octanol/water (Log Pow)	0,9 (23 °C)	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
Partition coefficient n-octanol/water (Log Pow)	> 3	
C14-16-18 Alkyl phenol		
Partition coefficient n-octanol/water (Log Pow)	> 7,2	

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12.4. Mobility in soil		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)		
Mobility in soil	Product adsorbs onto the soil	
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Ecology - soil	Product adsorbs little onto the soil.	
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)		
Ecology - soil	Insoluble in water.	
12.5. Results of PBT and vPvB assessment		
Component		
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0), zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0), zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (93819-94-4), Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW, EC 2000/532)	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

n accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID number				
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 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

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated Not regulated	
No supplementary information available				
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)

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains no 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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out: Distillates (petroleum), solvent-dewaxed light paraffinic

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	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	
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	

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Abbreviations and acronyms:	
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 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
EUH208	Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, 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.