

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 24-Mar-2026

Revision Number 1

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

1.1. Product identifier

Product Code(s) 127700
Safety data sheet number 127700
Product Name PETRONAS SYNTIUM PRIME DM 5W 30
Pure substance/mixture Mixture

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

Recommended use Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified

2.2. Label elements

Not classified

Hazard statements

Not classified
EUH208 - Contains MOLYBDENUM ALKYLTHIOCARBAMIDE COMPLEX; ALKYL PHENOL. May produce an allergic reaction.
EUH210 - Safety data sheet available on request

Unknown aquatic toxicity

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1	40 - 50%	276-738-4 (649-483-00-5)	-	Asp. Tox. 1 (H304)	-	-	-
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7	0 - 10%	265-157-1 (649-467-00-8)	-	Asp. Tox. 1 (H304)	-	-	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4	0 - 10%	265-090-8	-	Nota L Asp. Tox. 1 (H304) EUH066	-	-	-
CALCIUM ALKARYL SULPHONATE 722503-68-6	0 - 10%	-	-	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-	-	-
POLYOLEFIN POLYAMINE SUCCINIMIDE 873694-48-5	0 - 10%	-	-	Aquatic Chronic 4 (H413)	-	-	-
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXY PHENYL)PROPIONATE 125643-61-0	0 - 10%	406-040-9 (607-530-00-7)	-	Aquatic Chronic 4 (H413)	-	-	-
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BUTYL) AND 1,3-DIMETHYLBUT	0 - 10%	272-238-5	-	Aquatic Chronic 2 (H411) Eye Dam. 1 (H318)	-	-	-

YL) ESTERS, ZINC SALTS 68784-31-6							
PHENOL, DODECYL-, SULFURIZED, CARBONATES, CALCIUM SALTS, OVERBASED 68784-26-9	0 - 10%	272-234-3	-	Aquatic Chronic 4 (H413)	-	-	-
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL 1428353-74-5	0 - 10%	-	-	-	-	-	-
ALKARYL AMINE 36878-20-3	0 - 10%	253-249-4	-	Aquatic Chronic 4 (H413)	-	-	-
CALCIUM LONG CHAIN ALKARYL SULPHONATE 722503-68-6	0 - 10%	682-816-2	-	Skin Sens. 1B (H317)	-	-	-
ALKYL (C18-C28) TOLUENESULFONIC ACID, CALCIUM SALTS, BORATED -	0 - 10%	-	-	Repr. 2 (H361) Skin Sens. 1B (H317)	-	-	-
PHENOL DODECYL, BRANCHED 121158-58-5	0 - 10%	310-154-3	-	Skin Corr. 1C (H314) Eye Dam. 1 (H318) Repr. 1B (H360F) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	10

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Get medical attention if symptoms occur. Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth.

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

Dermal May cause an allergic skin reaction.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon oxides. Phosphorus oxides. Oxides of sulphur. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	United Kingdom
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1	TWA 5mg/m ³ (Manuf. Data)

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1		0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7		0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXY YPHENYL)PROPIONATE 125643-61-0		8.6 mg/kg [4] [6]	3.0 mg/m ³ [4] [6]
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS 68784-31-6		10.42 mg/kg/day [4] [6]	2.93 mg/m ³ [4] [6]
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL 1428353-74-5		1.1 mg/kg bw/day [4] [6]	0.8 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
ALKARYL AMINE 36878-20-3		5 mg/kg bw/day [4] [6]	
PHENOL DODECYL, BRANCHED 121158-58-5		0.25 mg/kg/day	1.7621 mg/m ³ [6]

[4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROX YPHENYL)PROPIONATE 125643-61-0	0.43 mg/kg [4] [6]	4.3 mg/kg [4] [6]	0.74 mg/m ³ [4] [6]
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS 68784-31-6	0.21 mg/kg/day [4] [6]	2.1 mg/kg/day [4] [6]	11.75 mg/m ³ [4] [6]
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL 1428353-74-5	0.1 mg/kg bw/day [4] [6]		0.2 mg/m ³ [4] [6]
ALKARYL AMINE 36878-20-3	0.25 mg/kg bw/day [4] [6]		
PHENOL DODECYL, BRANCHED 121158-58-5	0.075 mg/kg bw/day [4] [6] 1.26 mg/kg bw/day [4] [7]	50 mg/kg bw/day [4] [6] 50 mg/kg bw/day [4] [7]	0.79 mg/m ³ [4] [6] 13.26 mg/m ³ [4] [7]

[4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS 68784-31-6	4 µg/l	44 µg/L	4.6 µg/l		
COCONUT OIL,	0.007 mg/L	0.0215 mg/L	0.0007 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
REACTION PRODUCTS WITH BORIC ACID (H ₃ BO ₃), DIETHANOLAMINE AND GLYCEROL 1428353-74-5					
ALKARYL AMINE 36878-20-3	0.412 mg/L	1 mg/L	0.0412 mg/L		
PHENOL DODECYL, BRANCHED 121158-58-5	0.074 µg/L	0.37 µg/L	0.0074 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1					9.33 mg/kg food
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7					9.33 mg/kg food
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PR OPIONATE 125643-61-0	0.37 mg/kg	0.037 mg/kg	10 mg/l	0.632 mg/kg	
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS 68784-31-6	0.0701 mg/kg sediment dw	0.00701 mg/kg/day	3.8 mg/L	0.0548 mg/kg	3.8 mg/l
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H ₃ BO ₃), DIETHANOLAMINE AND GLYCEROL 1428353-74-5	16.74 mg/kg sediment dw	1.67 mg/kg sediment dw	10 mg/L	13.59 mg/kg soil dw	
ALKARYL AMINE 36878-20-3	1 mg/kg sediment dw	0.1 mg/kg sediment dw			
PHENOL DODECYL, BRANCHED 121158-58-5	0.226 mg/kg	0.0226 mg/kg	100 mg/L	0.118 mg/kg soil dw	4 mg/kg food

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). According to EN 16321-1.
Hand protection	Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Nitrile rubber. Neoprene gloves. Gloves must conform to standard EN 374.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Viscous liquid
Colour	Amber
Odour	No information available.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No information available.
Initial boiling point and boiling range	> 300.0 °C	ASTM D2887.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	> 209.0 °C	(ASTM D93).
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	71.33 cSt	40.0 °C. ASTM D 445.
Dynamic viscosity		No information available.
Water solubility	Immiscible in water	
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		No information available.
Relative density	0.8536	ASTM D4052.
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information**SECTION 10: Stability and reactivity**

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NO_x). Phosphorus oxides. Oxides of sulphur.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation May cause irritation.

Eye contact May cause temporary eye irritation.

Skin contact May cause slight irritation.

Ingestion Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
LUBRICATING OILS (PETROLEUM), C20-50,	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

HYDROTREATED NEUTRAL OIL-BASED			
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS	= 3400 mg/kg (Rat) = 2900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL	-	> 2000 mg/kg (Rat)	-
ALKARYL AMINE	> 5000 mg/kg (Rat)	-	-
PHENOL DODECYL, BRANCHED	-	= 15000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

No information available.

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit				Mild skin irritant

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			non-irritant

ALKARYL AMINE (36878-20-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				non-irritant

Serious eye damage/eye irritation

No information available.

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Mild eye irritation

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			non-irritant

ALKARYL AMINE (36878-20-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute	Rabbit				non-irritant

Eye Irritation/Corrosion					
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Respiratory or skin sensitisation May cause an allergic skin reaction.

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser

ALKARYL AMINE (36878-20-3)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig		Not a skin sensitiser

Germ cell mutagenicity No information available.

Component Information

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Results
	in vitro	In vitro genetic toxicity studies were negative in some cases and positive in other cases.

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Results
	Bacteria	Not mutagenic
	Mammal	Not mutagenic

Carcinogenicity No information available.

Component Information

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Results
	Mouse	Limited evidence of a carcinogenic effect

Chemical name	United Kingdom
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	Carc. 1B

Reproductive toxicity No information available.

Chemical name	United Kingdom
PHENOL DODECYL, BRANCHED	Repr. 1B

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

STOT - single exposure No information available.

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		Oral			May cause drowsiness or dizziness
		Inhalation			May cause drowsiness or dizziness

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

STOT - repeated exposure

No information available.

Component Information

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Inhalation	0.21 mg/l	28 days	Not classified

Aspiration hazard

No information available.

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Ecotoxicity

Not considered to be harmful to aquatic life.

Unknown aquatic toxicity

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (72623-87-1)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Fish	LC50	> 100 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Water flea	EC50	101 mg/L	48 hours	
	Fish	NOEC	> 1000 mg/L	14 days	
OECD Test No. 211: Daphnia magna Reproduction Test	Water flea	NOEC	10 mg/L	21 days	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	NOEC	> 100 mg/L	72 hours	

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (64742-54-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Pimephales promelas	LC50	> 100 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 10000 mg/L	48 hours	
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	10 mg/L	days	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Raphidocelis subcapitata	EC50	>= 100 mg/L	72 hours	
DIN 38412		NOEL	> 1.93 mg/L	4 days	

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Fish	LL50	>100 mg/L	96 hours	
	Water flea	EC50	>100 mg/L	48 hours	
	Green Algae	EL50	>100 mg/L	96 hours	
	Green Algae	NOEL	100 mg/L	96 hours	
	Water flea	NOEL	100 mg/L	21 days	

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test ISO 7346 84/449/EEC, C.1	Brachydanio rerio	LC50	> 74 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 100 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	EC50	> 3 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	NOEC	>= 3 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	activated sludge	EC10	> 100 mg/L	3 hours	
OECD Test No. 210: Fish, Early-Life Stage Toxicity Test	Brachydanio rerio	NOEC	0.001 mg/L	36 days	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	NOEC	>= 1 mg/L	21 days	
OECD Test No. 218: Sediment-Water Chironomid Toxicity Using Spiked Sediment	Lumbriculus variegatus	NOEC	37 mg/kg	28 days	
OECD Test No. 222: Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei)	Eisenia foetida	NOEC	250 mg/kg	56 days	
OECD Test No. 217: Soil	Toxicity to	NOEC	31.6 mg/kg	28 days	

Microorganisms: Carbon Transformation Test	microorganisms				
OECD Test No. 207: Earthworm, Acute Toxicity Tests	Eisenia foetida	EC50	> 1000 mg/kg	14 days	
OECD Test No. 208: Terrestrial Plant Test: Seedling Emergence and Seedling Growth Test	Brassica rapa	EC50	> 100 mg/kg	19 days	

ALKARYL AMINE (36878-20-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Fish	LC50	> 101 mg/L	96 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	EC50	600 mg/L	72 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
PHENOL, DODECYL-, SULFURIZED, CARBONATES, CALCIUM SALTS, OVERBASED	-	LC50: =72.3mg/L (96h, Pimephales promelas)	-	EC50: =4.9mg/L (48h, Daphnia magna)
PHENOL DODECYL, BRANCHED	-	LC50: =0.14mg/L (96h, Oncorhynchus clarki)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (72623-87-1)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	Biodegradation 1%	Not readily biodegradable

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (64742-54-7)

Method	Exposure time	Value	Results
		Biodegradation 31.13 %	Not readily biodegradable

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC (64741-88-4)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	22 Biodegradation	Not readily biodegradable

A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE (125643-61-0)

Method	Exposure time	Value	Results
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OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) ISO 9439 92/69/EEC, C.4 C	28 days	Biodegradation 2 %	Not readily biodegradable
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12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE	9.2
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS	4
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL	3.57
PHENOL DODECYL, BRANCHED	7.14

12.4. Mobility in soil

Mobility in soil Insoluble.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	The substance is not PBT / vPvB
A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE	The substance is not PBT / vPvB
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS	The substance is not PBT / vPvB
COCONUT OIL, REACTION PRODUCTS WITH BORIC ACID (H3BO3), DIETHANOLAMINE AND GLYCEROL	The substance is not PBT / vPvB
PHENOL DODECYL, BRANCHED	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC - 64742-54-7	Use restricted. See item 28. Restricted Carcinogen 1B	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC - 64741-88-4	Use restricted. See item 28. Restricted Carcinogen 1B	-
PHENOL DODECYL, BRANCHED - 121158-58-5	Use restricted. See item 30. Restricted Reproductive Toxin 1B	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

- H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation
 + Sensitisers
 Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGLE(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet