

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) 127698
Safety data sheet number 127698
Product Name PETRONAS SYNTIUM PRIME AV 5W 30
Pure substance/mixture Mixture

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

Recommended use Engine oil

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)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7	30 - 40%	265-157-1 (649-467-00-8)	-	Asp. Tox. 1 (H304)	-	-	-
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED 68037-01-4	20 - 30%	500-183-1	-	Asp. Tox. 1 (H304)	-	-	-
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1	0 - 10%	276-738-4 (649-483-00-5)	-	Asp. Tox. 1 (H304)	-	-	-
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED 72623-86-0	0 - 10%	276-737-9	-	Asp. Tox. 1 (H304)	-	-	-
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7	0 - 10%	265-174-4	-	Asp. Tox. 1 (H304)	-	-	-
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0	0 - 10%	265-169-7	-	Asp. Tox. 1 (H304)	-	-	-
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND	0 - 10%	283-392-8	-	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	Eye Dam. 1 :: C>12.5% Eye Irrit. 2 :: 10%<=C<12.5	-	-

ISO-PR) ESTERS, ZINC SALTS 84605-29-8					% Skin Irrit. 2 :: C>=6.25%		
ALKYL PHENOL 1190625-94-5	0 - 10%	-	-	Skin Sens. 1 (H317) STOT RE 2 (H373)	-	-	-

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

Note to doctors	Treat symptomatically.
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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 (NOx).
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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.
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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.
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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.
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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.
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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)

LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED 72623-86-0	TWA 5mg/m ³ (Manuf. Data)
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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
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]
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]
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED 72623-86-0		0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7		0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0		0.97 mg/kg [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS 84605-29-8		12.1 mg/kg bw/day [4] [6]	8.31 mg/m ³ [4] [6]
ALKYL PHENOL 1190625-94-5		0.3 mg/kg bw/day [4] [6]	1.17 mg/m ³ [4] [6]

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]
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]
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED 72623-86-0	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]

Chemical name	Oral	Dermal	Inhalation
64742-70-7			
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0	0.74 mg/kg [4] [6]		
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS 84605-29-8	0.24 mg/kg bw/day [4] [6]		2.11 mg/m ³ [4] [6]

[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(1,3-DIMETHYLB UTYL AND ISO-PR) ESTERS, ZINC SALTS 84605-29-8	4 µg/L	45 µg/L	4.6 µg/L		
ALKYL PHENOL 1190625-94-5	0.1 mg/L	1 mg/L	0.01 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC 64742-54-7					9.33 mg/kg food
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED 72623-87-1					9.33 mg/kg food
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED 72623-86-0					9.33 mg/kg food
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7					9.33 mg/kg food
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC					9.33 mg/kg

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
64742-65-0					
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS 84605-29-8	0.02203 mg/kg sediment dw	0.002203 mg/kg sediment dw	100 mg/L	0.00206 mg/kg soil dw	10.67 mg/kg food
ALKYL PHENOL 1190625-94-5	4266.16 mg/kg sediment dw	426.62 mg/kg sediment dw	100 mg/L	852.58 mg/kg soil dw	3.3 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

Property	Values	Remarks • Method
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	> 228.0 °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	66.45 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	0.8513	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 (NOx). 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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	-	-	> 5.2 mg/L (Rat) 4 h
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5 mg/l (Rat) 4h
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5 mg/L (Rat) (4 h) (Dust/mist)
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	= 3100 mg/kg (Rat) = 3200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.3 mg/L (Rat) 4 h
ALKYL PHENOL	-	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			non-irritant Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Not classified

Serious eye damage/eye irritation No information available.

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	eye			non-irritant Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	eye			Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Results
Buehler Test OECD 406	Guinea pig	Dermal	Not a skin sensitiser Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Exposure route	Results
OECD 406	Guinea pig	Dermal	Not classified

Germ cell mutagenicity No information available.

Component Information

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Results
Ames Test	Bacteria	Negative Based on data from similar materials
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hpvt and xprt genes	in vitro	Negative Based on data from similar materials
Chromosome aberration test	in vitro	Negative Based on data from similar materials
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Mouse	Negative Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Results
OECD 471 OECD 474 OECD 476		Not classified

Carcinogenicity No information available.

Component Information

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Results
	Mouse	Not Carcinogenic Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Results
IP 346		Not classified DMSO Extract, IP-346: < 3%

Chemical name	United Kingdom
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PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	Carc. 1B
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Reproductive toxicity No information available.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Results
OECD 421	Rat	Not classified
OECD 415	Rat	Not classified
OECD 414	Rat	Not classified

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Component Information

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 408	Rat	Oral	125 mg/kg bw/d	90 days	LOAEL Not classified
OECD 410	Rabbit	Dermal	1000 mg/kg bw/d	28 days	NOAEL Not classified
OECD 412	Rat	Inhalation Dust/Mist	0.98 mg/l/6h/d	28 days	NOAEC 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

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	

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	

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Pimephales promelas	LL50	> 100 mg/L	96 hours	Based on data from similar materials
Acute toxicity	Daphnia magna	EL50	> 100 mg/L	48 hours	Based on data from similar materials
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOEL	>= 100 mg/L	72 hours	Based on data from similar materials
Chronic aquatic toxicity	Daphnia magna	NOELR	> 1 mg/L	21 days	Based on data from similar materials

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Fish	LC50	> 100 mg/L	96 hours	Not classified
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Crustacea	EC50	> 100 mg/L	48 hours	Not classified
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	ErC50	> 100 mg/L	72 hours	Not classified
OECD Test No. 211: Daphnia magna Reproduction Test	Crustacea	NOEC	> 1 mg/L	21 days	Not classified
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	NOEC	> 1 mg/L	72 hours	Not classified

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
LUBRICATING OILS (PETROLEUM), C15-30,	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)

HYDROTREATED NEUTRAL OIL-BASED				
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYL BUTYL AND ISO-PR) ESTERS, ZINC SALTS	-	LC50: =4.5mg/L (96h, Oncorhynchus mykiss)	-	EC50: =23mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

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

Method	Exposure time	Value	Results
		Biodegradation 31.13 %	Not readily biodegradable

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

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

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

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	6.5
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	0.56
ALKYL PHENOL	7.2

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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	The substance is not PBT / vPvB
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	The substance is not PBT / vPvB
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	The substance is not PBT / vPvB
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED	The substance is not PBT / vPvB
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	The substance is not PBT / vPvB

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	The substance is not PBT / vPvB
ALKYL PHENOL	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	-
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY - 64742-70-7	Use restricted. See item 28.	-

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)

Ceiling Maximum limit value

+ Sensitisers

STEL

*

STEL (Short Term Exposure Limit)

Skin designation

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity - gas

Acute inhalation toxicity - vapour

Acute inhalation toxicity - dust/mist

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitisation

Skin sensitisation

Mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Acute aquatic toxicity

Chronic aquatic toxicity

Aspiration hazard

Ozone

Method Used

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

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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) (AEGL(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