

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) 127710
Safety data sheet number 127710
Product Name PETRONAS SYNTIUM SUPREME RN 0W 20
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	50 - 60%	265-157-1 (649-467-00-8)	-	Asp. Tox. 1 (H304)	-	-	-
DEC-1-ENE, TRIMERS, HYDROGENATED 157707-86-3	10 - 20%	500-393-3	-	Asp. Tox. 1 (H304)	-	-	-
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED 68037-01-4	10 - 20%	500-183-1	-	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	-	-	-
ALKARYL AMINE 36878-20-3	0 - 10%	253-249-4	-	Aquatic Chronic 4 (H413)	-	-	-
CALCIUM ALKARYL SULPHONATE 722503-68-6	0 - 10%	-	-	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-	-	-
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1) 114959-46-5	0 - 10%	-	-	Skin Sens. 1B (H317)	-	-	-
(TETRAPROPENYL)SUCCINIC ACID 27859-58-1	0 - 10%	248-698-8	-	Repr. 2 (H361) STOT RE 2 (H373) Skin Corr. 1C (H314) Eye Dam. 1 (H318)	-	-	-

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, CO ₂ , 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).
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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.

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.

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]
ALKARYL AMINE 36878-20-3		5 mg/kg bw/day [4] [6]	

Chemical name	Oral	Dermal	Inhalation
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1) 114959-46-5		1 mg/kg bw/day [4] [6]	
(TETRAPROPENYL)SUCCINIC ACID 27859-58-1		0.7 mg/kg bw/day [4] [6]	1.2 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]
ALKARYL AMINE 36878-20-3	0.25 mg/kg bw/day [4] [6]		
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1) 114959-46-5	0.5 mg/kg bw/day [4] [6]		
(TETRAPROPENYL)SUCCINIC ACID 27859-58-1	0.2 mg/kg bw/day [4] [6]		0.3 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
ALKARYL AMINE 36878-20-3	0.412 mg/L	1 mg/L	0.0412 mg/L		
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1) 114959-46-5	1 mg/L	10 mg/L	0.1 mg/L		
(TETRAPROPENYL)SUC CINIC ACID 27859-58-1	0.1 mg/L	1 mg/L	0.01 mg/L	0.1 mg/L	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC					9.33 mg/kg food

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
64742-54-7					
ALKARYL AMINE 36878-20-3	1 mg/kg sediment dw	0.1 mg/kg sediment dw			
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1) 114959-46-5	4.02 mg/kg sediment dw	0.402 mg/kg sediment dw	10 mg/L	2.62 mg/kg soil dw	
(TETRAPROPENYL)SUC CINIC ACID 27859-58-1	62.1 mg/kg sediment dw	6.21 mg/kg sediment dw	100 mg/L	12.4 mg/kg soil dw	3.33 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	> 202.0 °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	41.82 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	0.846	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, TRIMERS, HYDROGENATED	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5000 mg/m ³ (Rat) 4h
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	-	-	> 5.2 mg/L (Rat) 4 h
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
ALKARYL AMINE	> 5000 mg/kg (Rat)	-	-
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1)	> 5000 mg/kg (Rat)	> 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.

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion					Negligible

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

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

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion					May cause slight eye irritation

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

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

ALKARYL AMINE (36878-20-3)

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

Respiratory or skin sensitisation May cause an allergic skin reaction.

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

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

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

Method	Species	Exposure route	Results
	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

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test		Not expected
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test		Not expected
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test		Not expected
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes		Not expected

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.

Carcinogenicity No information available.

Component Information

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Results
		Not expected to cause carcinogenicity

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.

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Results
		Not expected

STOT - single exposure No information available.

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

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.

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

STOT - repeated exposure No information available.

Component Information

DEC-1-ENE, TRIMERS, HYDROGENATED (157707-86-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 407: Repeated Dose 28-day Oral Toxicity Study in Rodents					Not expected
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents					Not expected

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

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	

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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/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
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		Biodegradation 31.13 %	Not readily biodegradable
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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

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	6.5
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1)	5.32
(TETRAPROPENYL)SUCCINIC ACID	6.086

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, TRIMERS, HYDROGENATED	The substance is not PBT / vPvB
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	The substance is not PBT / vPvB
BENZOIC ACID, 2-HYDROXY-, MONO-C14-18-ALKYL DERIVS., CALCIUM SALTS (2:1)	The substance is not PBT / vPvB
(TETRAPROPENYL)SUCCINIC ACID	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	-
DEC-1-ENE, TRIMERS, HYDROGENATED - 157707-86-3	3	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC - 64741-88-4	Use restricted. See item 28. Restricted Carcinogen 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
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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) (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

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End of Safety Data Sheet