



## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Valvoline™ PROFLEET SAE 5W-20 Synthetic Motor Oil

Version: 5.0

Revision Date: 20.08.2024

Print Date: 12/12/2025

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

#### 1.1 Product identifier

Trade name : Valvoline™ PROFLEET SAE 5W-20 Synthetic Motor Oil

Product code : 898422

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

Use of the substance/mixture : Engine, gear & lubricating oil.

#### 1.3 Details of the supplier of the safety data sheet

Company : Ellis Enterprises B.V., an affiliate of Valvoline Global Operations  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands

Telephone : +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person

E-mail address of person responsible for the SDS : SDS@valvolineglobal.com

#### 1.4 Emergency telephone number

00-800-825-8654, or contact your local emergency telephone number at 112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.



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### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified	72623-87-1 276-738-4 649-483-00-5 01-2119474889-13-xxxx	Asp. Tox. 1; H304	>= 70 - < 90
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	125643-61-0 406-040-9 607-530-00-7 01-0000015551-76-xxxx	Aquatic Chronic 4; H413	>= 2.5 - < 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0 265-169-7 649-474-00-6 01-2119471299-27-xxxx	Asp. Tox. 1; H304	>= 1 - < 10
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil —	64742-70-7 265-174-4	Asp. Tox. 1; H304	>= 1 - < 10



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unspecified	649-477-00-2		
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-xxxx	Asp. Tox. 1; H304	>= 1 - < 10
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified	64742-56-9 265-159-2 649-469-00-9	Asp. Tox. 1; H304	>= 1 - < 10
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	93819-94-4 298-577-9 01-2119543726-33-xxxx	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411  specific concentration limit Skin Irrit. 2; H315 >= 6.25 % Eye Dam. 1; H318 >= 12.5 % Eye Irrit. 2; H319 >= 10.0 %	>= 1 - < 2.5
Dec-1-ene, oligomers, hydrogenated	68037-01-4 500-183-1 01-2119486452-34-xxxx	Asp. Tox. 1; H304	>= 1 - < 10
C14-16-18 Alkyl phenol	Not Assigned 931-468-2 01-2119498288-19-xxxx	Skin Sens. 1B; H317 STOT RE 2; H373 (Liver)	>= 0.1 - < 1

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.



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- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : No symptoms known or expected.

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

- Treatment : No hazards which require special first aid measures.  
Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : carbon dioxide and carbon monoxide

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.



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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply



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with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Workers	Inhalation	Long-term systemic effects	8.31 mg/m3
	Remarks:RD TOX - Repeated dose toxicity			
	Workers	Dermal	Long-term systemic effects	0.58 mg/kg
	Remarks:RD TOX - Repeated dose toxicity			
	Consumer use	Inhalation	Long-term systemic effects	2.11 mg/m3
	Remarks:RD TOX - Repeated dose toxicity			
	Consumer use	Dermal	Long-term systemic effects	0.29 mg/kg
	Remarks:RD TOX - Repeated dose toxicity			
	Consumer use	Oral	Long-term systemic effects	0.24 mg/kg
	Remarks:RD TOX - Repeated dose toxicity			

#### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Sewage treatment plant	1 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	60.9 mg/kg
	Marine sediment	0.037 mg/kg
	Fresh water sediment	0.37 mg/kg



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	Fresh water sediment	233 mg/kg
	Marine sediment	0.609 mg/kg
	Marine sediment	23.3 mg/kg
	Soil	0.05 mg/kg
	Soil	3.16 mg/kg
	Soil	189 mg/kg
	Soil	1 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

#### Hand protection

Material : neoprene, nitrile rubber  
Break through time : >= 240 min  
Glove thickness : >= 0.35 mm  
Directive : Equipment should conform to EN 374

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: amber
Odour	: No data available
Odour Threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 194 °C Method: Pensky-Martens closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.86 g/cm <sup>3</sup> (15.6 °C)
Solubility(ies)	
Water solubility	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available



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Viscosity, kinematic : ca. 47.1 mm<sup>2</sup>/s (40 °C)  
Oxidizing properties : No data available

### 9.2 Other information

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : excessive heat

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents  
water

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified due to lack of data.

#### Components:

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:

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Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: No mortality observed at this dose.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The substance or mixture has no acute oral toxicity
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

### Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: The toxicological data has been taken from products of similar composition.

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Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Acute oral toxicity	:	LD50 (Rat): 2,600 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 3,160 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

### Dec-1-ene, oligomers, hydrogenated:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

### C14-16-18 Alkyl phenol:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose.

### Skin corrosion/irritation

Not classified due to lack of data.



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### Product:

Remarks : May cause skin irritation in susceptible persons.

Remarks : May cause skin irritation and/or dermatitis.

### Components:

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:

Species	: Rabbit
Result	: No skin irritation

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
GLP	: yes

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Assessment	: Slight, transient irritation
Result	: Slight, transient irritation

#### Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Result	: Slight, transient irritation
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#### Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:

Species	: Rabbit
Result	: Slight, transient irritation

#### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Species	: Guinea pig
Method	: OECD Test Guideline 404
Result	: Irritating to skin.
Remarks	: The toxicological data has been taken from products of similar composition.

#### Dec-1-ene, oligomers, hydrogenated:

Species	: Rabbit
Result	: No skin irritation

#### C14-16-18 Alkyl phenol:



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Method : OECD Test Guideline 431  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified due to lack of data.

#### Product:

Result : Slight, transient irritation  
Remarks : Expected based on components.  
  
Remarks : May cause irreversible eye damage.

#### Components:

##### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:

Species : Rabbit  
Result : No eye irritation

##### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

##### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

##### Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:

Result : Slight, transient irritation

##### Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:

Species : Rabbit  
Result : Slight, transient irritation

##### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Species : Rabbit  
Result : Corrosive  
Remarks : The toxicological data has been taken from products of similar composition.



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### Dec-1-ene, oligomers, hydrogenated:

Species	:	Rabbit
Result	:	Slight, transient irritation

### C14-16-18 Alkyl phenol:

Species	:	Rabbit
Result	:	Slight, transient irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified due to lack of data.

#### Respiratory sensitisation

Not classified due to lack of data.

### Components:

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

#### Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406

### Dec-1-ene, oligomers, hydrogenated:

Test Type	:	Maximisation Test
Species	:	Guinea pig



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Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

### C14-16-18 Alkyl phenol:

Test Type : Local lymph node assay  
Species : Mouse  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 429

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Chinese hamster  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

#### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: The toxicological data has been taken from products of similar composition.

Genotoxicity in vivo : Test Type: Micronucleus test



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Species: **Mouse**  
Method: **OECD Test Guideline 474**  
Result: **negative**  
Remarks: **The toxicological data has been taken from products of similar composition.**

### **Dec-1-ene, oligomers, hydrogenated:**

Genotoxicity in vitro : Test Type: **Ames test**  
Test system: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**

### **C14-16-18 Alkyl phenol:**

Genotoxicity in vitro : Test Type: **Ames test**  
Test system: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**

### **Carcinogenicity**

Not classified due to lack of data.

### **Components:**

#### **Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### **Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### **Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation**



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Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

### Reproductive toxicity

Not classified due to lack of data.

### Components:

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Effects on fertility : Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 415  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

### STOT - single exposure

Not classified due to lack of data.

### STOT - repeated exposure

Not classified due to lack of data.

### Components:

C14-16-18 Alkyl phenol:

Target Organs : Liver  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

### Components:

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Species : Rat, male and female  
NOAEL : 5 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 407  
GLP : yes

### Aspiration toxicity

Not classified due to lack of data.

### Components:

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:

May be fatal if swallowed and enters airways.



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**Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

|| **May be fatal if swallowed and enters airways.**

**Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified:**

|| **May be fatal if swallowed and enters airways.**

**Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

|| **May be fatal if swallowed and enters airways.**

**Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:**

|| **May be fatal if swallowed and enters airways.**

**Dec-1-ene, oligomers, hydrogenated:**

|| **The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.**

### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

**Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:**

Toxicity to fish : **LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l**  
Exposure time: 96 h  
Test Type: **static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 203**  
Remarks: **No toxicity at the limit of solubility**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): > 10,000 mg/l**  
Exposure time: 48 h



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	<p>Test Type: <b>static test</b>          Test substance: <b>WAF</b>          Method: <b>OECD Test Guideline 202</b></p>
Toxicity to algae/aquatic plants	<p>: <b>NOEL (Pseudokirchneriella subcapitata (green algae)): &gt;= 100 mg/l</b>          End point: <b>Growth inhibition</b>          Exposure time: <b>72 h</b>          Test Type: <b>static test</b>          Test substance: <b>WAF</b>          Method: <b>OECD Test Guideline 201</b></p>
Toxicity to fish (Chronic toxicity)	<p>: <b>NOELR: &gt;= 1,000 mg/l</b>          Exposure time: <b>14 d</b>          Species: <b>Oncorhynchus mykiss (rainbow trout)</b></p>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<p>: <b>NOEL: 10 mg/l</b>          Exposure time: <b>21 d</b>          Species: <b>Daphnia (water flea)</b>          Test substance: <b>WAF</b>          Method: <b>OECD Test Guideline 211</b></p>

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Toxicity to fish	<p>: <b>LC50 (Danio rerio (zebra fish)): &gt; 100 mg/l</b>          Exposure time: <b>96 h</b>          Test Type: <b>static test</b>          Method: <b>OECD Test Guideline 203</b></p>
Toxicity to daphnia and other aquatic invertebrates	<p>: <b>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l</b>          Exposure time: <b>48 h</b>          Test Type: <b>static test</b>          Test substance: <b>WAF</b>          Method: <b>OECD Test Guideline 202</b>          GLP: <b>yes</b></p>
Toxicity to algae/aquatic plants	<p>: <b>EC50 (Desmodesmus subspicatus (green algae)): &gt; 3 mg/l</b>          Exposure time: <b>72 h</b>          Test Type: <b>static test</b>          Method: <b>OECD Test Guideline 201</b>          GLP: <b>yes</b>          Remarks: <b>No toxicity at the limit of solubility</b></p> <p><b>NOEC (Desmodesmus subspicatus (green algae)): &gt;= 3 mg/l</b>          Exposure time: <b>72 h</b>          Test Type: <b>static test</b>          Method: <b>OECD Test Guideline 201</b></p>



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	GLP: <b>yes</b> Remarks: <b>No toxicity at the limit of solubility</b>
Toxicity to microorganisms	: <b>EC50 (activated sludge): &gt; 100 mg/l</b> Exposure time: <b>3 h</b> Test Type: <b>Static</b> Method: <b>OECD Test Guideline 209</b> GLP: <b>yes</b>
Toxicity to fish (Chronic toxicity)	: <b>NOEC: 0.001 mg/l</b> Exposure time: <b>36 d</b> Species: <b>Danio rerio (zebra fish)</b> Test Type: <b>flow-through test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 210</b> GLP: <b>yes</b>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>NOEC: ca. 0.01 mg/l</b> Exposure time: <b>21 d</b> Species: <b>Daphnia magna (Water flea)</b> Test Type: <b>semi-static test</b> Method: <b>OECD Test Guideline 211</b> GLP: <b>yes</b> Remarks: <b>No toxicity at the limit of solubility</b>

### Ecotoxicology Assessment

Chronic aquatic toxicity	: <b>May cause long lasting harmful effects to aquatic life.</b>
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### Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Toxicity to fish	: <b>LL50 (Fish): &gt; 100 mg/l</b> Exposure time: <b>96 h</b>
Toxicity to daphnia and other aquatic invertebrates	: <b>EL50 (Aquatic invertebrates): &gt; 10,000 mg/l</b> Exposure time: <b>48 h</b>
Toxicity to algae/aquatic plants	: <b>EL50 (Algae, algal mat (Algae)): &gt; 100 mg/l</b> Exposure time: <b>72 h</b>
Toxicity to fish (Chronic toxicity)	: <b>NOEC: 10 mg/l</b> Species: <b>Fish</b>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>NOEC: 10 mg/l</b> Species: <b>Aquatic invertebrates</b>



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### Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified:

Toxicity to fish	:	<b>LL50 (Pimephales promelas (fathead minnow)):</b> > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	<b>EL50 (Daphnia magna (Water flea)):</b> > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	<b>NOEL (Pseudokirchneriella subcapitata (green algae)):</b> >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	<b>NOEL:</b> 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211

### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Toxicity to fish	:	<b>LL50 (Oncorhynchus mykiss (rainbow trout)):</b> 4.5 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	:	<b>EC50 (Daphnia magna (Water flea)):</b> 5.4 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	<b>EC50 (Selenastrum capricornutum (green algae)):</b> 2.1 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test

### Dec-1-ene, oligomers, hydrogenated:

Toxicity to fish	:	<b>LL50 (Oncorhynchus mykiss (rainbow trout)):</b> > 1,000 mg/l Exposure time: 96 h
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	Test Type: <b>semi-static test</b> Test substance: <b>WAF</b>
Toxicity to daphnia and other aquatic invertebrates	: <b>EL50 (Daphnia magna (Water flea)): &gt; 1,000 mg/l</b> Exposure time: <b>48 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 202</b>
Toxicity to algae/aquatic plants	: <b>EL50 (Scenedesmus capricornutum (fresh water algae)): &gt; 1,000 mg/l</b> End point: <b>Growth inhibition</b> Exposure time: <b>72 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 201</b>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>NOELR: 125 mg/l</b> Exposure time: <b>21 d</b> Species: <b>Daphnia magna (Water flea)</b> Test Type: <b>semi-static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 211</b>

### C14-16-18 Alkyl phenol:

Toxicity to fish	: <b>LC50 (Cyprinus carpio (Carp)): &gt; 100 mg/l</b> Exposure time: <b>96 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b>
Toxicity to daphnia and other aquatic invertebrates	: <b>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l</b> Exposure time: <b>48 h</b> Test Type: <b>static test</b> Method: <b>OECD Test Guideline 202</b>
Toxicity to algae/aquatic plants	: <b>EC50 (Pseudokirchneriella subcapitata (algae)): &gt; 100 mg/l</b> End point: <b>Growth inhibition</b> Exposure time: <b>72 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b>

## 12.2 Persistence and degradability

### Components:

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:



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Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **2 - 4 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **< 4 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**  
GLP: **yes**

### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **1.5 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

### Dec-1-ene, oligomers, hydrogenated:

Biodegradability : Result: **Inherently biodegradable.**

### C14-16-18 Alkyl phenol:

Biodegradability : Result: **Readily biodegradable.**  
Remarks: **Expert judgement**

## 12.3 Bioaccumulative potential

### Components:

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Bioaccumulation : Species: **Fish**  
Bioconcentration factor (BCF): **260**  
Method: **OECD Test Guideline 305**  
Remarks: **The substance has low potential for bioaccumulation.**

Partition coefficient: n-octanol/water : log Pow: **Calculated 9.2**

### zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate):

Partition coefficient: n-octanol/water : log Pow: **0.59 - 1.2 (23 °C)**

### Dec-1-ene, oligomers, hydrogenated:



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Partition coefficient: n-octanol/water : log Pow: > 6.5

### C14-16-18 Alkyl phenol:

Partition coefficient: n-octanol/water : log Pow: > 7.2

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Waste Code : The Waste code should be assigned in discussion between the user and the waste disposal company.  
The following Waste Codes are only suggestions:  
13 02 05, mineral-based non-chlorinated engine, gear and



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lubricating oils

### SECTION 14: Transport information

#### 14.1 UN number

<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA_P</b>	:	Not regulated as a dangerous good

#### 14.2 UN proper shipping name

<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA_P</b>	:	Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA_P</b>	:	Not regulated as a dangerous good

#### 14.4 Packing group

<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA (Cargo)</b>	:	Not regulated as a dangerous good
<b>IATA_P (Passenger)</b>	:	Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable



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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	:	Not applicable

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory



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IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

### 15.2 Chemical safety assessment

No data available

#### Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECl (Thailand), TSCA (USA)

## SECTION 16: Other information

### Full text of H-Statements

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.  
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.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime



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Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Internal information : 000000279251

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.

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