



SAFETY DATA SHEET

SynPower™ FE SAE 5W/30 Synthetic Motor Oil

Version: 2.0

Revision Date: 01.11.2021

Print Date: 26/11/2021

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_DE

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

1.1 Product identifier

Trade name : SynPower™ FE SAE 5W30
Synthetic Motor Oil

Product code : 872551

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

Recommended use : Engine, gear & lubricating oil.

1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands
+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SDS@valvoline.com

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 0 30-1
92 40

Product Information

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request.

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



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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.

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based	72623-87-1 276-738-4 01-2119474889-13-xxxx	Asp. Tox.1; H304	>= 80,00 - < 90,00
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 1,00 - < 2,50
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 Chronic2; H411	>= 1,00 - < 2,50
C14-16-18 Alkyl phenol	931-468-2 01-2119498288-19-xxxx	Skin Sens.1B; H317 STOT RE2; H373	>= 0,50 - < 1,00

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.



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- If symptoms persist, call a physician.
- 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Nitrogen oxides (NO_x)
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.

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.

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 : Keep container tightly closed in a dry and well-ventilated



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areas and containers place. Electrical installations / working materials must comply with the technological safety standards.

Storage class (TRGS 510) : 10, Combustible liquids

Other data : 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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based	72623-87-1	AGW (Vapour and aerosols)	5 mg/m3 Vapour and aerosols	DE TRGS 900

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

zinc bis[O-(6-methylheptyl)]	: End Use: Workers
bis[O-(sec-butyl)]	Exposure routes: Inhalation
bis(dithiophosphate)	Potential health effects: Long-term systemic effects
	Value: 8,31 mg/m3RD TOX - Repeated dose toxicity
	End Use: Workers
	Exposure routes: Dermal
	Potential health effects: Long-term systemic effects
	Value: 0,58 mg/kgRD TOX - Repeated dose toxicity
	End Use: Consumer use
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 2,11 mg/m3RD TOX - Repeated dose toxicity
	End Use: Consumer use
	Exposure routes: Dermal
	Potential health effects: Long-term systemic effects
	Value: 0,29 mg/kgRD TOX - Repeated dose toxicity
	End Use: Consumer use
	Exposure routes: Oral
	Potential health effects: Long-term systemic effects
	Value: 0,24 mg/kgRD TOX - Repeated dose toxicity



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8.2 Exposure controls

Personal protective equipment

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

Hand protection

Remarks : 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH : Not applicable

Pour point : < -39,00 °C

Boiling point/boiling range : > 225,00 °C

Flash point : 209 °C

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available



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Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	25 hPa Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	ca. 0,852
Density	:	ca. 0,852 g/cm ³ (15 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	ca. 54 mm ² /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.



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10.4 Conditions to avoid

Conditions to avoid : excessive heat
No data available

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

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.

Components:

REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Remarks: No mortality observed at this dose.
Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal



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toxicity

Remarks: The toxicological data has been taken from products of similar composition.

Components:

ZINC DIALKYL 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

Components:

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 based on available information.

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:

Species: Rabbit
Result: No skin irritation

REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

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

ZINC DIALKYL DITHIOPHOSPHATE:

Species: Guinea pig
Method: OECD Test Guideline 404



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Result: **Irritating to skin.**
Remarks: **The toxicological data has been taken from products of similar composition.**

C14-16-18 Alkyl phenol:

Method: **OECD Test Guideline 431**
Result: **No skin irritation**

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: May cause irreversible eye damage.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Species: **Rabbit**
Result: **No eye irritation**

REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: **Rabbit**
Result: **Slight, transient irritation**
Remarks: **The toxicological data has been taken from products of similar composition.**

ZINC DIALKYLDITHIOPHOSPHATE:

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

C14-16-18 Alkyl phenol:

Species: **Rabbit**
Result: **Slight, transient irritation**

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitisation.
Remarks: Based on similar product.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

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



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REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Remarks: **The toxicological data has been taken from products of similar composition.**

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 based on available information.

Components:

REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

ZINC DIALKYL DITHIOPHOSPHATE:

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **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**

Test species: **Mouse**

Method: **OECD Test Guideline 474**

Result: **negative**

Remarks: **The toxicological data has been taken from products of similar composition.**

C14-16-18 Alkyl phenol:

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**



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Carcinogenicity

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

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

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

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.

Aspiration toxicity

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Not classified based on available information.



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Long-term (chronic) aquatic hazard : Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

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
Test Type: **static test**
Test substance: **WAF**
Method: **OECD Test Guideline 202**

Toxicity to algae : **NOEL (Pseudokirchneriella subcapitata (green algae)): >= 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 fish (Chronic toxicity) : **NOELR: >= 1.000 mg/l**
Exposure time: 14 d
Species: **Oncorhynchus mykiss (rainbow trout)**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEL: 10 mg/l**
Exposure time: 21 d
Species: **Daphnia (water flea)**
Test substance: **WAF**
Method: **OECD Test Guideline 211**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : **Not classified based on available information.**

Long-term (chronic) aquatic hazard : **Not classified based on available information.**

bis(nonylphenyl)amine

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): > 100 mg/l**
Exposure time: 96 h



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	Test Type: static test Remarks: The toxicological data has been taken from products of similar composition.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test

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

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 5,4 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 (Selenastrum capricornutum (green algae)): 2,1 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test

C14-16-18 Alkyl phenol

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



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12.2 Persistence and degradability

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

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

bis(nonylphenyl)amine

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **0 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301B**

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**

C14-16-18 Alkyl phenol

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

12.3 Bioaccumulative potential

Components:

bis(nonylphenyl)amine

Partition coefficient: n-octanol/water : log Pow: **> 7,5**

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

Partition coefficient: n-octanol/water : log Pow: **0,59 - 1,2 (23 °C)**

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



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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:

Further information : 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.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good



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14.6 Special precautions for user

Not applicable

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water hazard class (Germany) : WGK 3 highly hazardous to water

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable



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Organic Substances:
portion Class 1: 81,1 %

Carcinogenic substances:
portion Class 3: 81,1 %

Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 81,1 %

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 : Not in compliance with the inventory
- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : 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
- IECSC : Not in compliance with the inventory
- NZIoC : Not in compliance with the inventory



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TECI : Not in compliance with the inventory

Inventories

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

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000098054

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.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.



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Revision Date: 01.11.2021

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List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
CLP : Classification, Labelling and Packaging
CSA : Chemical Safety Assessment
CSR : Chemical Safety Report
DNEL : Derived No Effect Level.
EINECS : European Inventory of Existing Commercial Chemical Substances.
ELINCS : European List of Notified Chemical Substances
PEC : Predicted Effect Concentration
PEL : Permissible Exposure Limits
PNEC : Predicted No Effect Concentration
R-phrase : Risk phrase
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals



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RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
S-phrase: Safety phrase
WGK : German Water Hazard Class