



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

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

#### 1.1 Product identifier

Trade name : Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Product code : 892447

#### 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 112

#### 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)

Long-term (chronic) aquatic hazard,  
Category 3

H412: Harmful to aquatic life with long lasting  
effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412

Harmful to aquatic life with long lasting  
effects.

Precautionary statements : **Prevention:**



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

P273

Avoid release to the environment.

**Disposal:**

P501

Dispose of contents/ container to an approved waste disposal plant.

### 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 (%)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 25,00 - < 40,00
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 01-2119487077-29-xxxx	Asp. Tox.1; H304	>= 2,50 - < 5,00
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0 265-169-7 01-2119471299-27-xxxx	Asp. Tox.1; H304	>= 2,50 - < 5,00
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 1,00 - < 2,50
Phosphorodithioic acid, mixed O,O-bis(1,3- dimethylbutyl and iso- Pr) esters, zinc salts	84605-29-8 283-392-8 01-2119493626-26-xxxx	Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Chronic2; H411	>= 1,00 - < 2,50
phenol, (tetrapropenyl) derivatives	74499-35-7 310-154-3	Skin Corr.1C; H314 Eye Dam.1; H318 Repr.1B; H360F Aquatic Acute1; H400	>= 0,025 - < 0,10



# SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

		Aquatic Chronic1; H410	
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.  
Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.
- If inhaled : If symptoms persist, call a physician.  
If unconscious, place in recovery position and seek medical advice.  
If breathed in, move person into fresh air.
- In case of skin contact : Wash contaminated clothing before re-use.  
If on skin, rinse well with water.  
Remove contaminated clothing. If irritation develops, get medical attention.
- In case of eye contact : Protect unharmed eye.  
Remove contact lenses.  
Immediately flush eye(s) with plenty of water.
- If swallowed : If symptoms persist, call a physician.  
Never give anything by mouth to an unconscious person.  
Do not give milk or alcoholic beverages.

### 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.

## SECTION 5: Firefighting measures



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Water spray  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
carbon dioxide and carbon monoxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

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

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Use personal protective equipment.  
Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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

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



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Dispose of rinse water in accordance with local and national regulations.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid contact with skin and eyes.  
Container hazardous when empty.  
Do not smoke.  
Do not breathe vapours/dust.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not smoke. When using do not eat or drink.  
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.
- Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

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 : oily

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : ca. 203,5 °C



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

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	: ca. 0,8495 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
Viscosity, kinematic	: ca. 74,8 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.



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W/30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
excessive heat

### 10.5 Incompatible materials

Materials to avoid : strong reducing agents  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Ingestion  
Eye Contact  
Skin contact  
Inhalation

#### Acute toxicity

Not classified based on available information.

#### Components:

##### HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

#### Components:

##### DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg





**SAFETY DATA SHEET**  
Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

**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: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

**Components:**

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Acute oral toxicity : LD50 (Rat): 3.100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2,3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:**

**HEAVY PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

Result: Slight, transient irritation

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

Species: Rabbit

Result: Mild skin irritation



**SAFETY DATA SHEET**  
Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

Remarks: Information given is based on data obtained from similar substances.

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Species: Rabbit

Result: Irritating to skin.

**BRANCHED ALKYLPHENOL & CALCIUM BRANCHED ALKYLPHENOL:**

Result: Irritating to skin.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Causes serious eye irritation., Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**

**HEAVY PARAFFINIC DISTILLATE:**

Result: No eye irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:**

Result: Slight, transient irritation

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

Species: Rabbit

Result: Slight, transient irritation

Remarks: Information given is based on data obtained from similar substances.

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

Species: Rabbit

Result: Corrosive

**BRANCHED ALKYLPHENOL & CALCIUM BRANCHED ALKYLPHENOL:**

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

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



**SAFETY DATA SHEET**  
Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406  
Remarks: Information given is based on data obtained from similar substances.

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

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

**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

**PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:**

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

**Carcinogenicity**

Not classified based on available information.

**Components:**

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

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

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**BRANCHED ALKYLPHENOL & CALCIUM BRANCHED ALKYLPHENOL:**

Reproductive toxicity - : Clear evidence of adverse effects on sexual function and  
Assessment fertility, based on animal experiments.



# SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

## Aspiration toxicity

Not classified based on available information.

## Components:

### HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

### DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

May be fatal if swallowed and enters airways.

## Further information

### Product:

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Distillates (petroleum), hydrotreated heavy paraffinic

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10.000 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic : NOEC: 10 mg/l  
toxicity) Species: Fish

Toxicity to daphnia and other : NOEC: 10 mg/l  
aquatic invertebrates Species: Aquatic invertebrates  
(Chronic toxicity)



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

bis(nonylphenyl)amine Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Remarks: Information given is based on data obtained from similar substances.
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
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (Desmodesmus subspicatus (green algae)): 24 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)	: NOEC: 0,4 mg/l Exposure time: 28 d End point: Reproduction Test Species: Daphnia magna (Water flea) Test substance: WAF Method: OECD Test Guideline 211
phenol, (tetrapropenyl) derivatives M-Factor (Short-term (acute) aquatic hazard)	: 10



# SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

M-Factor (Long-term  
(chronic) aquatic hazard) : 10

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

bis(nonylphenyl)amine  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1,5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

### Components:

bis(nonylphenyl)amine  
Partition coefficient: n-octanol/water : log Pow: > 7,5

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts  
Partition coefficient: n-octanol/water : log Pow: 0,56

## 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



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Contaminated packaging : Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.  
Empty remaining contents.

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## 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

### 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.



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

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

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

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
DISTILLATES (PETROLEUM),  
HYDROTREATED HEAVY  
PARAFFINIC (Number on list 28)  
  
(Number on list 28)

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

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

DSL : All components of this product are on the Canadian DSL





## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

AICS	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or 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	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Not On TSCA Inventory

### Inventories

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

### 15.2 Chemical safety assessment

No data available

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## SECTION 16: Other information

### Further information

Internal information : 000000277159

### Full text of H-Statements

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H360F	May damage fertility.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

Version: 1.0

Revision Date: 11.09.2020

Print Date: 20/09/2022

### 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.

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



## SAFETY DATA SHEET

Valvoline™ HYBRID VEHICLE C3 5W30  
Synthetic Motor Oil

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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-phrse : Risk phrase  
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
S-phrse: Safety phrase  
WGK : German Water Hazard Class