	
<b>SAFETY DATA SHEET</b>	Revision Date: 28.02.2018
	Print Date: 09.03.2018
	SDS Number: R0517100
Valvoline™ VR1 RACING SAE 5W-50 Synthetic Racing Oil ™ Trademark, Valvoline or its subsidiaries, registered in various countries 873434	Version: 7.0

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™ VR1 RACING SAE 5W-50  
Synthetic Racing Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various countries

### 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)

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.

### 2.3 Other hazards

#### Additional advice

No information available.


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**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	>= 60,00 - < 70,00
DECENE-1 HOMOPOLYMER HYDROGENATED	68037-01-4 01-2119486452-34-xxxx	Asp. Tox.1; H304	>= 15,00 - < 25,00
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 5,00 - < 10,00
Reaction products of Benzeneamine, N- phenyl- with nonene (branched)	36878-20-3 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 1,00 - < 2,50

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
 If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
 Protect unharmed eye.


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If swallowed : 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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 acne  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)

Risks : Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

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

Treatment : No hazards which require special first aid measures.

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**SECTION 5: Firefighting measures**
**5.1 Extinguishing media**

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

**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.


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Hazardous combustion products : carbon dioxide and carbon monoxide  
 Hydrocarbons  
 nitrogen oxides (NOx)

**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.  
 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 : 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**

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 : Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.

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


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Hygiene measures : General industrial hygiene practice.

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

Advice on common storage : No materials to be especially mentioned.

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**
**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**
**Engineering measures**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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 : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

Remarks : Nitrile rubber butyl-rubber

Skin and body protection : Wear as appropriate:  
Safety shoes

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


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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	: 201 - 249 °C
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 25 hPa Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: 0,855
Density	: ca. 0,855 g/cm <sup>3</sup> (15,6 °C)
Bulk density	: Not applicable
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: ca. 110 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	: No data available

**9.2 Other information**

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**

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 : None known.

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : carbon dioxide and carbon monoxide  
 Hydrocarbons  
 Nitrogen oxides (NOx)

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**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

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

**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: Not classified as acutely toxic by inhalation  
 under GHS.



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Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
 Remarks: No mortality observed at this dose.

### Components:

#### DECENE-1 HOMOPOLYMER 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: No adverse effect has been observed in acute  
 inhalation toxicity tests.

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

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

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

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

### 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.

### **Skin corrosion/irritation**

Not classified based on available information.

### Components:

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

Species: Rabbit  
 Result: No skin irritation

#### DECENE-1 HOMOPOLYMER HYDROGENATED:

Species: Rabbit



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Result: **No skin irritation****HEAVY PARAFFINIC DISTILLATE:**Result: **Slight, transient irritation****REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):**Species: **Rabbit**Result: **Mild skin irritation**Remarks: **Information given is based on data obtained from similar substances.****Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Slight, transient irritation

Remarks: Expected based on components.

Remarks: Unlikely to cause eye irritation or injury.

**Components:****Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**Species: **Rabbit**Result: **No eye irritation****DECENE-1 HOMOPOLYMER HYDROGENATED:**Species: **Rabbit**Result: **Slight, transient irritation****HEAVY PARAFFINIC DISTILLATE:**Result: **No eye 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.****Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:****Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**Test Type: **Buehler Test**Species: **Guinea pig**Assessment: **Does not cause skin sensitisation.****DECENE-1 HOMOPOLYMER HYDROGENATED:**

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

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

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.**

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****DECENE-1 HOMOPOLYMER HYDROGENATED:**

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

**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**

**Carcinogenicity**

Not classified based on available information.

**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.

**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.**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

**The substance or mixture is known to cause human aspiration toxicity hazards or has to be**

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regarded as if it causes a human aspiration toxicity hazard.

**HEAVY PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

Remarks: No data available

**SECTION 12: Ecological information****12.1 Toxicity****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: Calculated >= 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

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Method: **OECD Test Guideline 211****DECENE-1 HOMOPOLYMER HYDROGENATED**

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l**  
 Exposure time: **96 h**  
 Test Type: **semi-static test**  
 Test substance: **WAF**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): > 1.000 mg/l**  
 Exposure time: **48 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 202**

Toxicity to algae : **EL50 (Scenedesmus capricornutum (fresh water algae)): > 1.000 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) : **NOELR: 125 mg/l**  
 Exposure time: **21 d**  
 Species: **Daphnia magna (Water flea)**  
 Test Type: **semi-static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 211**

**Distillates (petroleum), hydrotreated heavy paraffinic**

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

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

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

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

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

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched)**

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

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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**

**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**

DECENE-1 HOMOPOLYMER HYDROGENATED

Biodegradability : Result: **Inherently biodegradable**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

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

**12.3 Bioaccumulative potential****Components:**

DECENE-1 HOMOPOLYMER HYDROGENATED


Partition coefficient: n-octanol/water : **log Pow: > 6,5**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

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

**12.4 Mobility in soil**

No data available

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**12.5 Results of PBT and vPvB assessment**

Not relevant

**12.6 Other adverse effects**

**Product:**

Additional ecological information : No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Contaminated packaging : Empty remaining contents.

**SECTION 14: Transport information**

**SECTION 14: Transport information**

**14.1 UN number**

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

**14.2 UN proper shipping name**

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

**14.3 Transport hazard class(es)**

**ADN:** Not dangerous goods


**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

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#### 14.4 Packing group

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.5 Environmental hazards

**ADN:** Not applicable

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

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.

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

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 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

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

- DSL : All components of this product are on the Canadian DSL
- 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
- TSCA 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**

Revision Date: 28.02.2018

**Full text of H-Statements**

H304 May be fatal if swallowed and enters airways.



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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

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