



**SAFETY DATA SHEET**  
Valvoline™ VR1 RACING SAE 20W-50 Racing  
Oil

Version: 3.0

Revision Date: 06.04.2021

Print Date: 27/12/2021

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 : Valvoline™ VR1 RACING SAE 20W-50  
Racing Oil

Product code : 873431

**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.



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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 (%)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 5,00 - < 10,00
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 2,50 - < 5,00
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
Substances with a workplace exposure limit :			
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7 01-2119484627-25-xxxx		>= 80,00 - < 90,00

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.



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- If symptoms persist, call a physician.
- 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 : If eye irritation persists, consult a specialist.  
Protect unharmed eye.  
Remove contact lenses.  
Flush eyes with water as a precaution.
- 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 : 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.

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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
- 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



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### 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.
- 

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

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.

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
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	AGW (Vapour and aerosols)	5 mg/m3 Vapour and aerosols	DE TRGS 900
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	AGW (Vapour and aerosols)	5 mg/m3 Vapour and aerosols	DE TRGS 900
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	MAK (Inhalable fraction.)	2 mg/m3 Inhalable fraction.	DFG MAK
		MAK (Respirable fraction.)	0,1 mg/m3 Respirable fraction.	DFG MAK

**8.2 Exposure controls**

**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below



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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

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

Pour point : < -24 °C

Boiling point/boiling range : No data available

Flash point : 220 °C  
Method: Cleveland open cup

Flammability (solid, gas) : No data available



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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. 0,882 g/cm <sup>3</sup> (15,6 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	< 6.800 mPa.s (-15 °C)
Viscosity, kinematic	:	ca. 163 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	:	No data available

## 9.2 Other information

Self-ignition	:	No data available
		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.
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**10.4 Conditions to avoid**

Conditions to avoid : excessive heat

**10.5 Incompatible materials**

Materials to avoid : Oxidizing agents  
alkalis  
Acids  
Acid chlorides

**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 : Inhalation  
Skin contact  
Eye Contact  
Ingestion

**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:**

**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:**





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**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.

**Components:**

**HEAVY PARAFFINIC DISTILLATE:**

Acute oral toxicity	: LD50 (Rat): > 15 g/kg
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**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.

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

Species: Rabbit  
Result: Irritating to skin.

**HEAVY PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Slight, transient irritation  
Remarks: Expected based on components.



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

**Components:**

**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.**

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

Species: **Rabbit**

Result: **Corrosive**

**HEAVY PARAFFINIC DISTILLATE:**

Result: **No eye irritation**

**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):**

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**



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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:**

**HEAVY PARAFFINIC DISTILLATE:**

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.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**HEAVY PARAFFINIC DISTILLATE:**

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

**HEAVY PARAFFINIC DISTILLATE:**

**No aspiration toxicity classification**

**Further information**

**Product:**

Remarks: No data available

**SECTION 12: Ecological information**



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## 12.1 Toxicity

### Components:

Distillates (petroleum), hydrotreated heavy paraffinic

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	: <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>

bis(nonylphenyl)amine

Toxicity to fish	: <b>LC50 (Danio rerio (zebra fish)): &gt; 100 mg/l</b> Exposure time: <b>96 h</b> Test Type: <b>static test</b> Remarks: <b>Information given is based on data obtained from similar substances.</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> Test substance: <b>WAF</b>
Toxicity to algae	: <b>EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l</b> End point: <b>Growth inhibition</b> Exposure time: <b>72 h</b> Test Type: <b>static test</b>

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Toxicity to fish	: <b>LL50 (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l</b> Exposure time: <b>96 h</b> Test Type: <b>semi-static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 203</b>
Toxicity to daphnia and other aquatic invertebrates	: <b>EL50 (Daphnia magna (Water flea)): 23 mg/l</b> Exposure time: <b>48 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b>



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	Method: <b>OECD Test Guideline 202</b>
Toxicity to algae	: <b>EL50 (Desmodesmus subspicatus (green algae)): 24 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>NOEC: 0,4 mg/l</b> Exposure time: <b>28 d</b> End point: <b>Reproduction Test</b> Species: <b>Daphnia magna (Water flea)</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 211</b>
<b>Distillates (Petroleum), Hydrotreated Heavy Paraffinic</b>	
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	: <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>
<b>Ecotoxicology Assessment</b>	
Short-term (acute) aquatic hazard	: <b>Not classified based on available information.</b>
Long-term (chronic) aquatic hazard	: <b>Not classified based on available information.</b>

## 12.2 Persistence and degradability

### **Components:**

bis(nonylphenyl)amine

Biodegradability	: Result: <b>Not readily biodegradable.</b> Biodegradation: <b>0 %</b> Exposure time: <b>28 d</b>
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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**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic

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

## 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:

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.



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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.

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 : Not applicable



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pollutants

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)

Directive 96/82/EC does not apply

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 contaminating 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  
Organic Substances:  
portion Class 1: 85,56 %

Carcinogenic substances:  
portion Class 3: < 0,01 %

Mutagenic:  
others: < 0,01 %

Toxic to reproduction:  
Not applicable





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**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
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	On TSCA Inventory

**Inventories**

AICS (Australia), AIIC (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 : R0517750

**Full text of H-Statements**

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.



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**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.

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



**SAFETY DATA SHEET**  
Valvoline™ VR1 RACING SAE 20W-50 Racing  
Oil

Version: 3.0

Revision Date: 06.04.2021

Print Date: 27/12/2021

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