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VR1 Racing™ 20W50 Motor Oil ™ Trademark, Valvoline or its subsidiaries, registered in various countries 871868		Version: 2.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : VR1 Racing™ 20W50 Motor Oil
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL SDS@valvoline.com	Emergency telephone number +1-800-VALVOLINE (+1-800-825-8654) Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
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2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification


No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Defatter

Hazardous components


Chemical name	CAS-No.	Classification	Concentration (%)
HEAVY PARAFFINIC OIL	64742-70-7	Not a hazardous substance or mixture.	>= 70.00 - < 90.00
Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts	90194-32-4	2A; H319	>= 1.00 - < 10.00
DISTILLATES (PETROLEUM)	64742-65-0	Not a hazardous substance or mixture.	>= 1.00 - < 10.00
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	Skin Sens. 1B; H317	>= 0.10 - < 1.00

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4. 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.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : 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.
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)
- Notes to physician : No hazards which require special first aid measures.

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5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO₂)
 Dry chemical
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Aldehydes
 carbon dioxide and carbon monoxide
 Sulphur oxides
 Hydrocarbons
- Specific extinguishing methods : Standard procedure for chemical fires.
- Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
- Materials to avoid : No materials to be especially mentioned.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HEAVY PARAFFINIC OIL	64742-70-7	TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
DISTILLATES (PETROLEUM)	64742-65-0	TWA (Mist)	5 mg/m3 Mist	MY PEL
		TWA (Mist)	5 mg/m3 Mist	PH OEL
		OEL-TWA (Mist)	5 mg/m3 Mist	HK OEL
		OEL-STEL (Mist)	10 mg/m3 Mist	HK OEL

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

Respiratory protection : No personal respiratory protective equipment normally required.


Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:
Safety shoes

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Odour : No data available
 Odour Threshold : No data available
 pH : No data available
 Melting point/freezing point : No data available
 Boiling point/boiling range : No data available
 Flash point : No data available
 Evaporation rate : No data available
 Flammability (solid, gas) : No data available
 Upper explosion limit : No data available
 Lower explosion limit : No data available
 Vapour pressure : No data available
 Relative vapour density : No data available
 Relative density : No data available
 Density : No data available
 Solubility(ies)
 Water solubility : No data available
 Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : No data available
 Thermal decomposition : No data available
 Viscosity
 Viscosity, dynamic : No data available
 Viscosity, kinematic : No data available
 Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
 Chemical stability : Stable under recommended storage conditions.

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- Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
- Conditions to avoid : excessive heat
- Incompatible materials : Strong oxidizing agents
- Hazardous decomposition products : Aldehydes
 carbon dioxide and carbon monoxide
 Hydrocarbons
 Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

HEAVY PARAFFINIC OIL:

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
 Assessment: Not classified as acutely toxic by ingestion under GHS.
 Remarks: Information given is based on data obtained from similar substances.
- Acute dermal toxicity : LD50 (Rabbit): > 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.

DISTILLATES (PETROLEUM):

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

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

- Acute oral toxicity : LD50 (Rat): > 16,000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.
- Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Assessment: Not classified as acutely toxic by inhalation under GHS.
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

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Skin corrosion/irritation

Not classified based on available information.

Components:

HEAVY PARAFFINIC OIL:

Result: **Slight, transient irritation**

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: **No skin irritation**

DISTILLATES (PETROLEUM):

Result: **Slight, transient irritation**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species: **Rabbit**Result: **No skin irritation****Serious eye damage/eye irritation**

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

HEAVY PARAFFINIC OIL:

Result: **Slight, transient irritation**

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: **Irritating to eyes.**

DISTILLATES (PETROLEUM):

Result: **Slight, transient irritation**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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.

Components:

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Assessment: **The product is a skin sensitiser, sub-category 1B.**

Germ cell mutagenicity

Not classified based on available information.

Components:

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DISTILLATES (PETROLEUM):

Genotoxicity in vitro : Test Type: **Ames test**
 Result: **negative**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium 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.

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.

Further information

Product:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Toxicity to fish : **LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l**
 Exposure time: **96 h**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 203**
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 1,000 mg/l**
 Exposure time: **48 h**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 202**
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to algae : **NOEC (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l**
 End point: **Growth inhibition**
 Exposure time: **96 h**
 Test Type: **static test**



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Test substance: **WAF**
Remarks: **Information given is based on data obtained from similar substances.**

No data available

Persistence and degradability

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **8 %**
Exposure time: **28 d**

No data available

Bioaccumulative potential

HEAVY PARAFFINIC OIL:

Partition coefficient: n-octanol/water : log Pow: **> 3.5**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Partition coefficient: n-octanol/water : log Pow: **10.9**

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty remaining contents.

14. TRANSPORT INFORMATION

International transport regulations


REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

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Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

UN_DG

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant		no
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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.

15. REGULATORY INFORMATION

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

Other international regulations

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


- TSCA : On TSCA Inventory
- 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 : Not in compliance with the 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)

16. OTHER INFORMATION

Further information

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Full text of H-Statements

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.


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 (1-800-VALVOLINE).

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

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- 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