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GHS classification in accordance with the Hazardous Products Regulations

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline™ SAE 5W20 Motor Oil

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

Recommended use : Motor Oil

|  |  |
|--|--|
| <p><b>Details of the supplier of the safety data sheet</b><br/> Valvoline Canada Corp<br/> 905 Winston Churchill Blvd<br/> Mississauga ON L5J 4P2<br/> Canada<br/> 1-800-TEAMVAL (1-800-832-6825)</p> <p>SDS@valvoline.com</p> | <p><b>Emergency telephone number</b><br/> 1-800-VALVOLINE (1-800-825-8654)</p> <p><b>Regulatory Information Number</b><br/> 1-800-TEAMVAL (1-800-832-6825)</p> <p><b>Product Information</b><br/> 1-800-TEAMVAL (1-800-832-6825)</p> |
|--|--|

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

| Chemical name  | CAS-No.    | Classification                        | Concentration (%) |
|--|------------|---------------------------------------|-------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 | Not a hazardous substance or mixture. | >=50.00 - < 70.00 |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic | 64742-54-7 | Asp. Tox. 1; H304                     | >=30.00 - < 50.00 |

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| HYDROTREATED LIGHT<br>PARAFFINIC DISTILLATE                     | 64742-55-8 | Asp. Tox. 1; H304                        | >=5.00 - < 10.00 |
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC    |            | Not a hazardous<br>substance or mixture. | >=1.00 - < 5.00  |
| DISTILLATES (PETROLEUM),<br>SOLVENT-DEWAXED HEAVY<br>PARAFFINIC | 64742-65-0 | Asp. Tox. 1; H304                        | >=1.00 - < 5.00  |

**SECTION 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 : No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

**SECTION 5. FIREFIGHTING MEASURES**

- 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



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- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 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.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and 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.
- Other information : Comply with all applicable federal, state, and local regulations.

**SECTION 7. HANDLING AND STORAGE**

- 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.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible | Basis |
|------------|---------|-------------------------------|----------------------------------|-------|
|            |         |                               |                                  |       |



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|   |            |       | concentration    |           |
|---|------------|-------|------------------|-----------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC    | 64742-54-7 | TWA   | 5 mg/m3<br>Mist  | CA AB OEL |
|   |            | STEL  | 10 mg/m3<br>Mist | CA AB OEL |
|   |            | TWAEV | 5 mg/m3<br>Mist  | CA QC OEL |
|   |            | STEV  | 10 mg/m3<br>Mist | CA QC OEL |
|   |            | TWA   | 1 mg/m3<br>Mist  | CA BC OEL |
| Distillates (Petroleum),<br>Hydrotreated Heavy Paraffinic       | 64742-54-7 | TWA   | 5 mg/m3<br>Mist  | CA AB OEL |
|   |            | STEL  | 10 mg/m3<br>Mist | CA AB OEL |
|   |            | TWAEV | 5 mg/m3<br>Mist  | CA QC OEL |
|   |            | STEV  | 10 mg/m3<br>Mist | CA QC OEL |
|   |            | TWA   | 1 mg/m3<br>Mist  | CA BC OEL |
| HYDROTREATED LIGHT<br>PARAFFINIC DISTILLATE                     | 64742-55-8 | TWA   | 5 mg/m3<br>Mist  | CA AB OEL |
|   |            | STEL  | 10 mg/m3<br>Mist | CA AB OEL |
|   |            | TWAEV | 5 mg/m3<br>Mist  | CA QC OEL |
|   |            | STEV  | 10 mg/m3<br>Mist | CA QC OEL |
|   |            | TWA   | 1 mg/m3<br>Mist  | CA BC OEL |
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY<br>PARAFFINIC    |            | TWA   | 5 mg/m3<br>Mist  | CA AB OEL |
|   |            | STEL  | 10 mg/m3<br>Mist | CA AB OEL |
|   |            | TWAEV | 5 mg/m3<br>Mist  | CA QC OEL |
|   |            | STEV  | 10 mg/m3<br>Mist | CA QC OEL |
|   |            | TWA   | 1 mg/m3<br>Mist  | CA BC OEL |
| DISTILLATES (PETROLEUM),<br>SOLVENT-DEWAXED HEAVY<br>PARAFFINIC | 64742-65-0 | TWA   | 5 mg/m3<br>Mist  | CA AB OEL |
|   |            | STEL  | 10 mg/m3<br>Mist | CA AB OEL |



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|  |  |       |                   |           |
|--|--|-------|-------------------|-----------|
|  |  | TWAEV | 5 mg/m3<br>Mist   | CA QC OEL |
|  |  | STEV  | 10 mg/m3<br>Mist  | CA QC OEL |
|  |  | TWA   | 0.2 mg/m3<br>Mist | CA BC OEL |
|  |  | TWA   | 1 mg/m3<br>Mist   | CA BC 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  
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : General industrial hygiene practice.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- 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 : > 199 °C

Method: Cleveland open cup

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|--|---|---|
| Evaporation rate                                 | : | No data available                               |
| Flammability (solid, gas)                        | : | No data available                               |
| Self-ignition                                    | : | No data available                               |
| Upper explosion limit / Upper flammability limit | : | 6 %(V)<br>Calculated Explosive Limit            |
| Lower explosion limit / Lower flammability limit | : | 1 %(V)<br>Calculated Explosive Limit            |
| Vapour pressure                                  | : | 0.0012 hPa (20 °C)<br>Calculated Vapor Pressure |
| Relative vapour density                          | : | No data available                               |
| Relative density                                 | : | No data available                               |
| Density  | : | 0.8620 g/cm <sup>3</sup> (15.56 °C)             |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | No data available                               |
| 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                             | : | 50 mm <sup>2</sup> /s ( 40 °C)                  |
| Oxidizing properties                             | : | No data available                               |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed. |
| Chemical stability                 | : | Stable under recommended storage conditions.        |
| Possibility of hazardous reactions | : | Product will not undergo hazardous polymerization.  |
| Conditions to avoid                | : | excessive heat                                      |

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**Inhalation  
Skin contact  
Eye Contact  
Ingestion**Acute toxicity**

Not classified based on available information.

**Components:****DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Acute oral toxicity : LD50 (Rat): &gt; 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): &gt; 5 g/kg

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

Acute oral toxicity : LD50 (Rat): &gt; 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): &gt; 5 g/kg

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

Acute oral toxicity : LD50 (Rat): &gt; 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): &gt; 5,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Assessment : Slight, transient irritation

Result : Slight, transient irritation

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Assessment : Slight, transient irritation

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Result : Slight, transient irritation

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

Assessment : Slight, transient irritation

Result : Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks : Unlikely to cause eye irritation or injury.

**Components:****DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Result : No eye irritation

Assessment : No eye irritation

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

Result : No eye irritation

Assessment : No eye irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Result : Slight, transient irritation

Assessment : Slight, transient irritation

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Result : Slight, transient irritation

Assessment : Slight, transient irritation

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

Result : Slight, transient irritation

Assessment : Slight, transient irritation

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Components:****DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**


Carcinogenicity - : Classified based on DMSO extract content &lt; 3% (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Carcinogenicity - : Classified based on DMSO extract content &lt; 3% (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

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**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

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.

**Product:**

No aspiration toxicity classification

**Components:**

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

No aspiration toxicity classification

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

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

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

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

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

**Components:**

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

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

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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 (Fish): 10 mg/l

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

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

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

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 (Fish): 10 mg/l

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

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


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

**Persistence and degradability****Components:**

No data available

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

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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


Not applicable for product as supplied.

**National Regulations**

**TDG**

Not regulated as a dangerous good

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

**Canadian PBT Chemicals** : This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA:  
 Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

**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 : Contact your sales representative for additional information.

KECI : On the inventory, or in compliance with the inventory

IECSC : Contact your sales representative for additional information.

PICCS : On the inventory, or in compliance with the inventory

TCSI : Not 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)

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## SECTION 16. OTHER INFORMATION

**Further information**

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| <b>NFPA:</b> | <b>HMIS III:</b> |
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| <p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p> | <table border="1"> <tr><td><b>HEALTH</b></td><td><b>0</b></td></tr> <tr><td><b>FLAMMABILITY</b></td><td><b>1</b></td></tr> <tr><td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 =Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>0</b> | <b>FLAMMABILITY</b> | <b>1</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>   | <b>0</b>   |               |          |                     |          |                        |          |
| <b>FLAMMABILITY</b>   | <b>1</b>   |               |          |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>  | <b>0</b>   |               |          |                     |          |                        |          |

**NFPA Flammable and Combustible Liquids Classification**  
Combustible Liquid Class IIIB


**Full text of H-Statements**

H304                                      May be fatal if swallowed and enters airways.

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.

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).

- 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

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ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System