## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Trade name : PREMIUM CONVENTIONAL SAE 5W-20

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

Recommended use : Motor Oil

| | |
|---|---|
| **Details of the supplier of the safety data sheet**<br>Valvoline LLC<br>100 Valvoline Way<br>Lexington, KY 40509<br>United States of America (USA)<br>1-800-TEAMVAL<br><br>SDS@valvoline.com | **Emergency telephone number**<br>+1-800-VALVOLINE (+1-800-825-8654)<br><br>**Regulatory Information Number**<br>1-800-TEAMVAL<br><br>**Product Information**<br>1-800-TEAMVAL |

## SECTION 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.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Hazardous components**

| Chemical name | CAS-No. | Classification | Concentration (%) |
|---|---|---|---|
| PETROLEUM DISTILLATES | 64742-54-7 | Asp. Tox. 1; H304 | >= 30.00 - < 50.00 |
| PETROLEUM DISTILLATES | 64742-55-8 | Asp. Tox. 1; H304 | >= 1.00 - < 10.00 |
| DISTILLATES (PETROLEUM) | 64742-65-0 | Asp. Tox. 1; H304 | >= 1.00 - < 10.00 |

| | | | |
|---|---|---|---|
| | | | |
| Reaction products of Benzeneamine, N-phenyl- with nonene (branched) | 36878-20-3 | 3; H316<br><br>Aquatic Chronic 4; H413 | >= 1.00 - < 10.00 |

## 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.<br>If unconscious, place in recovery position and seek medical advice.<br>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.<br>Protect unharmed eye. |
| If swallowed | : | Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>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.<br><br>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.

## 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 (CO2)
Dry chemical

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
nitrogen oxides (NOx)

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.

## 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.
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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

## SECTION 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.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| PETROLEUM DISTILLATES | 64742-54-7 | CMP (Mist) | 5 mg/m3 Mist | AR OEL |
| | | CMP - CPT (Mist) | 10 mg/m3 Mist | AR OEL |
| | | TWA (Mist) | 5 mg/m3 Mist | PE OEL |
| | | STEL (Mist) | 10 mg/m3 Mist | PE OEL |
| | | L-8/40 (Mist) | 5 mg/m3 Mist | VE OEL |
| | | LB (Mist) | 10 mg/m3 Mist | VE OEL |
| | | CPT (Mist) | 5 mg/m3 Mist | PA OEL |
| | | CCT (Mist) | 10 mg/m3 Mist | PA OEL |
| | | TWA (Mist, inhalable) | 5 mg/m3 Mist, inhalable | CR OEL |
| | | STEL (Mist) | 10 mg/m3 Mist | CR OEL |
| PETROLEUM DISTILLATES | 64742-55-8 | CMP (Mist) | 5 mg/m3 Mist | AR OEL |
| | | CMP - CPT (Mist) | 10 mg/m3 Mist | AR OEL |
| | | TWA (Mist) | 5 mg/m3 Mist | PE OEL |
| | | STEL (Mist) | 10 mg/m3 Mist | PE OEL |
| | | L-8/40 (Mist) | 5 mg/m3 Mist | VE OEL |
| | | LB (Mist) | 10 mg/m3 Mist | VE OEL |
| | | CPT (Mist) | 5 mg/m3 Mist | PA OEL |
| | | CCT (Mist) | 10 mg/m3 Mist | PA OEL |
| | | TWA (Mist, inhalable) | 5 mg/m3 Mist, inhalable | CR OEL |

| | | | | |
|---|---|---|---|---|
| | | STEL (Mist) | 10 mg/m3 Mist | CR 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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : 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 °CMethod: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)
Calculated Explosive Limit

Lower explosion limit : 1 %(V)
Calculated Explosive Limit

Vapour pressure : 0.0012 hPa (20 °C)
Calculated Vapor Pressure

| | | |
|---|---|---|
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.8620 g/cm3 (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 |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | 50 mm2/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 |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | carbon dioxide and carbon monoxide<br>Hydrocarbons<br>Nitrogen oxides (NOx) |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
Not classified based on available information.

**Components:**
PETROLEUM DISTILLATES:

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

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

DISTILLATES (PETROLEUM):

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

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

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg |
| Acute dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg<br>Assessment: Not classified as acutely toxic by dermal absorption under GHS.<br>Remarks: Information given is based on data obtained from similar substances. |

**Skin corrosion/irritation**
Not classified based on available information.

**Components:**
PETROLEUM DISTILLATES:
Result: Slight, transient irritation

PETROLEUM DISTILLATES:
Result: Slight, transient irritation

DISTILLATES (PETROLEUM):
Result: Slight, transient irritation

Reaction products of Benzeneamine, N-phenyl- with 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:**
Remarks: Unlikely to cause eye irritation or injury.

**Components:**
PETROLEUM DISTILLATES:
Result: No eye irritation

PETROLEUM DISTILLATES**:**

Result: Slight, transient irritation

DISTILLATES (PETROLEUM)**:**

Result: Slight, transient irritation

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

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 products of Benzeneamine, N-phenyl- with 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.

**Product:**
No aspiration toxicity classification

**Components:**
PETROLEUM DISTILLATES:
May be fatal if swallowed and enters airways.

PETROLEUM DISTILLATES:
May be fatal if swallowed and enters airways.

DISTILLATES (PETROLEUM):
May be fatal if swallowed and enters airways.

**Further information**

**Product:**
Remarks: No data available

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
**Components:**
PETROLEUM DISTILLATES:

| | | |
|---|---|---|
| Toxicity to fish | : | LL50 (Fish): > 100 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Aquatic invertebrates): > 10,000 mg/l |
| Toxicity to algae | : | EL50 (Algae, algal mat (Algae)): > 100 mg/l |
| 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 |

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

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): > 100 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>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<br>Exposure time: 48 h<br>Test Type: static test<br>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

No data available

**Persistence and degradability**

**Components:**

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

| | | |
|---|---|---|
| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: 0 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B |

No data available

**Bioaccumulative potential**

**Components:**

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

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: > 7.5 |

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:**

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Contaminated packaging : Empty remaining contents.

## SECTION 14. TRANSPORT INFORMATION

**International transport regulations**

**REGULATION**

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

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

| |
|---|
| Not dangerous goods |
| |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

| |
|---|
| Not dangerous goods |
| |

**INTERNATIONAL MARITIME DANGEROUS GOODS**

| |
|---|
| Not dangerous goods |
| |

**UN_DG**

| |
|---|
| Not dangerous goods |
| |

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

| | | |
|---|---|---|
| Marine pollutant | | no |

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15. REGULATORY INFORMATION

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

| | | |
|---|---|---|
| Chemical Control Order (CCO) | : | Not applicable |
| Priority Chemical List (PCL) | : | Not applicable |
| Hazardous Substance Act B.E. 2535 | : | Not applicable |
| Emergency Decree on Controlling the Use of Volatile Substances B.E. 2533 | : | Not applicable |

**Other international regulations**
**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 |
| 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)

## SECTION 16. OTHER INFORMATION

**Further information**
Revision Date: 07/06/2017

**Full text of H-Statements**

| | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |
| H316 | Causes mild skin irritation. |
| 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 (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
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

CEATOX
Assistance Center of the Institute of Toxicology
Children's Hospital Clinic, Faculty of Medicine
University of São Paulo.
BR OEL : Occupational Exposure Limit (Brazil)
UY OEL : Occupational Exposure Limit (Uruguay)
PY OEL : Occupational Exposure Limit (Paraguay)