SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: Valvoline™ PREMIUM UNIVERSAL TRACTOR HYDRAULIC FLUID

Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Details of the supplier of the safety data sheet</th>
<th>Emergency telephone number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valvoline LLC</td>
<td>1-800-VALVOLINE</td>
</tr>
<tr>
<td>3499 Blazer Parkway</td>
<td></td>
</tr>
<tr>
<td>Lexington, KY 40509</td>
<td></td>
</tr>
<tr>
<td>United States of America</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:SDS@valvoline.com">SDS@valvoline.com</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Regulatory Information Number</th>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-800-TEAMVAL</td>
<td>1-800-TEAMVAL</td>
</tr>
</tbody>
</table>

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS Label element
This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE</td>
<td></td>
<td>Not a hazardous substance or mixture.</td>
<td>95.00</td>
</tr>
</tbody>
</table>
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
: 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:
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.
**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

**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.

- **Conditions for safe storage**: Electrical installations / working materials must comply with the technological safety standards.

- **Materials to avoid**: No materials to be especially mentioned.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE</td>
<td>REL</td>
<td>5 mg/m3 Mist.</td>
<td>NIOSH/GUIDE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m3 Mist.</td>
<td>NIOSH/GUIDE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m3 Mist.</td>
<td>OSHA_TRA NS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3 Mist.</td>
<td>TN OEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3 Inhalable fraction.</td>
<td>ACGIH</td>
<td></td>
</tr>
</tbody>
</table>

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.

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 : 399.9 °F / 204.4 °C
Method: Cleveland open cup
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 : 0.882 g/cm³ (15.6 °C)

Solubility(ies)
  Water solubility : negligible
  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

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.

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.

Skin corrosion/irritation
Not classified based on available information.

Product:
Result: Repeated exposure may cause skin dryness or cracking.

Components:
HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE:
Result: Mildly irritating to skin

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks: Unlikely to cause eye irritation or injury.

Components:
HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE:
Result: Mildly irritating to eyes

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.

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: Valvoline™ PREMIUM UNIVERSAL TRACTOR HYDRAULIC FLUID
Version: 1.1

Carcinogenicity:

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
No data available

Product:
Additional ecological information: No data available

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.
SECTION 14. TRANSPORT INFORMATION

International transport regulations

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>ID NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT - ROAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Not dangerous goods</td>
</tr>
<tr>
<td>CFR_RAIL_C</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>U.S. DOT - INLAND WATERWAYS</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>TDGROAD_C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>TDG_RAIL_C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>TDG_INWT_C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>INTERNATIONAL MARITIME DANGEROUS GOODS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
<tr>
<td>MX DG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
</tr>
</tbody>
</table>

*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

**SARA 311/312 Hazards**
- No SARA Hazards

**SARA 313 Component(s)**
- This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Right To Know**
- HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE
  - Not Assigned
  - 90.00 - 100.00 %
- PROPRIETARY ADDITIVES
  - Not Assigned
  - 10.00 - 20.00 %

**New Jersey Right To Know**
- HYDROTREATED PARAFFINIC DISTILLATES - MIXTURE
  - Not Assigned
  - 90.00 - 100.00 %
- PROPRIETARY ADDITIVES
  - Not Assigned
  - 10.00 - 20.00 %

**California Prop 65**
- This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**
- **TSCA**
  - On the inventory, or in compliance with the inventory
- **DSL**
  - Not in compliance with the inventory
- **AUSTR**
  - Not in compliance with the inventory
- **NZIOC**
  - Not in compliance with the inventory
- **ENCS**
  - Not in compliance with the inventory
- **KECL**
  - Not in compliance with the inventory
- **PICCS**
  - Not 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), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information
Revision Date: 07/31/2016

<table>
<thead>
<tr>
<th>NFPA:</th>
<th>HMIS III:</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>HEALTH</td>
</tr>
<tr>
<td>1</td>
<td>FLAMMABILITY</td>
</tr>
<tr>
<td>0</td>
<td>PHYSICAL HAZARD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Special hazard.</td>
</tr>
</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

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 (1-800-825-8654).

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

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