
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: Maxlife™ SAE 10W-30
HIGH MILEAGE MOTOR OIL

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet
Valvoline LLC
3499 Blazer Parkway
Lexington, KY 40509
United States of America
SDS@valvoline.com

Emergency telephone number
1-800-VALVOLINE

Regulatory Information Number
1-800-TEAMVAL

Product Information
1-800-TEAMVAL

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

Substance / Mixture: Mixture
Chemical nature: Defatter

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAVY PARAFFINIC DISTILLATE</td>
<td>64742-54-7</td>
<td>Asp. Tox. 1; H304</td>
<td>12.18</td>
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</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: Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.

In case of eye contact: Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

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.

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

Unsuitable extinguishing media : High volume water jet

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 : Use personal protective equipment.
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: Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures: 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

Hand protection

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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: impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures: Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid

Colour: amber

Odour: mild
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : > 424 °F / > 218 °C (1013 hPa)
Flash point : > 390 °F / > 199 °C
   Method: Cleveland open cup
Evaporation rate : < 1
Flammability (solid, gas) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : < 1.0 mmHg (20 °C)
Relative vapour density : > 1AIR=1
Relative density : No data available
Density : 0.8687 g/cm³ (15.6 °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 : ca. 70 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.
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: carbon dioxide and carbon monoxide, Hydrocarbons

### 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:**

**HEAVY PARAFFINIC DISTILLATE:**
- Acute oral toxicity: LD 50 (Rat): > 15 g/kg
- Acute dermal toxicity: LD 50 (Rabbit): > 5 g/kg

**ZINC DIALKYL DITHIOPHOSPHATE:**
- Acute oral toxicity: LD 50 (Rat): > 2,000 - 5,000 mg/kg
- Acute dermal toxicity: LD 50 (Rabbit): > 2,000 mg/kg
  Assessment: Not classified as acutely toxic by dermal absorption under GHS.

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

**Product:**
Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**
**HEAVY PARAFFINIC DISTILLATE:**
Result: Mildly irritating to skin

**ZINC DIALKYL DITHIOPHOSPHATE:**
Result: Irritating to skin
Serious eye damage/eye irritation
Not classified based on available information.

Product:
Result: Slightly irritating to eyes
Remarks: Expected based on components.

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

Components:
HEAVY PARAFFINIC DISTILLATE:
Result: Not irritating to eyes

ZINC DIALKYL DITHIOPHOSPHATE:
Result: Possibly 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.

Product:
No aspiration toxicity classification

Components:
HEAVY PARAFFINIC DISTILLATE:
May be fatal if swallowed and enters airways.

Further information
Product:
Remarks: No data available

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

**Components:**

**HEAVY PARAFFINIC DISTILLATE:**
- 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

**ZINC DIALKYL DITHIOPHOSPHATE:**
- Ecotoxicology Assessment: Toxic to aquatic life.
- Acute aquatic toxicity: Toxic to aquatic life.
- Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Persistence and degradability

**Components:**
No data available

Bioaccumulative potential

**Components:**
No data available

Mobility in soil

**Components:**
No data available

Other adverse effects

No data available

**Product:**
- Additional ecological information: No data available

**Components:**
SECTON 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging
Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTON 14. TRANSPORT INFORMATION

International transport regulations

<table>
<thead>
<tr>
<th>REGULATION</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>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDGROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods
INTERNATIONAL MARITIME DANGEROUS GOODS
Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO
Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER
Not dangerous goods

MX 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

SARA 311/312 Hazards : No SARA Hazards

SARA 313 Component(s)

<table>
<thead>
<tr>
<th>Component Description</th>
<th>UN Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZINC DIALKYL DITHIOPHOSPHATE</td>
<td>68649-42-3</td>
<td>1.08 %</td>
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<tr>
<td>PHOSPHORODITHIOIC ACID, MIXED O.O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS</td>
<td>84605-29-8</td>
<td>0.53 %</td>
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</table>

Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Component Description</th>
<th>UN Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAVY PARAFFINIC DISTILLATE</td>
<td>64742-54-7</td>
<td>50.00 - 70.00 %</td>
</tr>
<tr>
<td>HYDROTREATED HEAVY PARAFFINIC BASE OIL</td>
<td>64742-54-7</td>
<td>10.00 - 20.00 %</td>
</tr>
<tr>
<td>HEAVY PARAFFINIC DISTILLATE</td>
<td>64742-54-7</td>
<td>10.00 - 20.00 %</td>
</tr>
<tr>
<td>LUBRICANT ADDITIVE</td>
<td>Not Assigned</td>
<td>5.00 - 10.00 %</td>
</tr>
</tbody>
</table>
New Jersey Right To Know

HEAVY PARAFFINIC DISTILLATE 64742-54-7 50.00 - 70.00 %
HYDROTREATED HEAVY PARAFFINIC BASE OIL 64742-54-7 10.00 - 20.00 %
HEAVY PARAFFINIC DISTILLATE 64742-54-7 10.00 - 20.00 %
LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 %
ZINC DIALKYL DITHIOPHOSPHATE 68649-42-3 1.00 - 5.00 %
DINONYL DIPHENYLAMINE 36878-20-3 1.00 - 5.00 %

California Prop 65
Proposition 65 warnings are not required for this product based on the results of a risk assessment.

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.
AUSTR  :  Not in compliance with the inventory
ENCS  :  Contact your sales representative for additional information.
KECL  :  On the inventory, or in compliance with the inventory
PICCS  :  On the inventory, or in compliance with the inventory
IECSC  :  q (quantity restricted)

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (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>
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<tbody>
<tr>
<td>Flammability</td>
<td>Health</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
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<tr>
<td>0</td>
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</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class III B

Full text of H-Statements referred to under sections 2 and 3.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.

Further information
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
SAFETY DATA SHEET

Maxlife™ SAE 10W-30 HIGH MILEAGE MOTOR OIL

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