
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: Valvoline™ Mercon V Automatic Transmission Fluid

™ Trademark, Valvoline or its subsidiaries, registered in various countries
822345

Details of the supplier of the safety data sheet
Valvoline LLC
100 Valvoline Way
Lexington, KY 40509
United States of America (USA)
1-800-TEAMVAL (1-800-832-6825)

Emergency telephone number
1-800-VALVOLINE (1-800-825-8654)

Regulatory Information Number
1-800-TEAMVAL (1-800-832-6825)

Product Information
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Eye irritation: Category 2A
Skin sensitization: Category 1
Aspiration hazard: Category 1

GHS label elements
Hazard pictograms:

Signal Word: Danger

Hazard Statements: May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary Statements: Prevention:
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ eye protection/ face protection.

Response:
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Hazardous components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Chemical name</td>
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<tr>
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<td>CAS-No.</td>
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<td>64742-54-7</td>
</tr>
<tr>
<td>HYDROTREATED LIGHT PARAFFINIC DISTILLATE</td>
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<tr>
<td>METHACRYLATE COPOLYMER</td>
<td></td>
</tr>
<tr>
<td>ALKYL METHACRYLATE</td>
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</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

**General advice**
- Move out of dangerous area.
- Show this safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.

**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.
- First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- Wash contaminated clothing before re-use.

**In case of eye contact**
- Immediately flush eye(s) with plenty of water.
- 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.
- May be fatal if swallowed and enters airways.
- May cause an allergic skin reaction.
- Causes serious eye irritation.

**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.
SAFETY DATA SHEET

Valvoline™ Mercon V Automatic Transmission Fluid

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Water spray
Foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. 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:

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 product from entering drains. 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:
- Do not breathe vapours/dust.
- Do not smoke.
- Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Container hazardous when empty.
- Avoid exposure - obtain special instructions before use.
- 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.

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>
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<td>5 mg/m3 Mist</td>
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<td>5 mg/m3 Mist, Inhalable fraction</td>
<td>ACGIH</td>
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<td>TWA</td>
<td>5 mg/m3 Mist</td>
<td>OSHA P0</td>
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<td>NIOSH REL</td>
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</table>

**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**: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**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.
- Discard gloves that show tears, pinholes, or signs of wear.
- 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

Appearance : liquid
Colour : red
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 : 374 °F / 190 °C
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Self-ignition : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : 0.0133333 hPa (70.00 °F / 21.11 °C)
Calculated Vapor Pressure
Relative vapour density : No data available
Relative density : No data available
Density : 0.858 g/cm³ (60.01 °F / 15.56 °C)
Solubility(ies)
  Water solubility : negligible
  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 : 7.4 mm²/s (212 °F / 100 °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 : alkalis
                       Strong acids
                       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): > 15 g/kg
Acute dermal toxicity: LD50 (Rabbit): > 5 g/kg

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity: LC50 (Rat): > 5.58 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Assessment: Not classified as acutely toxic by inhalation under GHS.
  Remarks: No mortality observed at this dose.

Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

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

**Product:**
Remarks: May cause skin irritation in susceptible persons.

**Components:**

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**
- Assessment: Slight, transient irritation
- Result: Slight, transient irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**
- Species: Rabbit
- Result: No skin irritation

**POLYALKYLMETHACRYLATE:**
- Result: No skin irritation

**MINERAL OIL:**
- Assessment: Slight, transient irritation
- Result: Slight, transient irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**
- Assessment: Slight, transient irritation
- Result: Slight, transient irritation

**METHACRYLATE COPOLYMER:**
- Result: No skin irritation

**ALKYL METHACRYLATE:**
- Assessment: Irritating to skin.
- Result: Irritating to skin.

**Serious eye damage/eye irritation**
Causes serious eye irritation.
SAFETY DATA SHEET

Valvoline™ Mercon V Automatic Transmission Fluid
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Product: Valvoline™ Mercon V Automatic Transmission Fluid
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.

Components:
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:
Result: No eye irritation
Assessment: No eye irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
Species: Rabbit
Result: No eye irritation

POLYALKYLMETHACRYLATE:
Result: Irritating to eyes.

MINERAL OIL:
Result: Slight, transient irritation
Assessment: Slight, transient irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
Result: Slight, transient irritation
Assessment: Slight, transient irritation

METHACRYLATE COPOLYMER:
Result: Irritating to eyes.

ALKYL METHACRYLATE:
Result: Irritating to eyes.
Assessment: Irritating to eyes.

Respiratory or skin sensitisation
Skin sensitisation
May cause an allergic skin reaction.
Respiratory sensitisation
Not classified based on available information.

Product:
Remarks: May cause allergic skin reaction.

Components:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
Test Type: Buehler Test
Species: Guinea pig
Assessment: Does not cause skin sensitisation.

ALKYL METHACRYLATE:
Assessment: May cause sensitisation by skin contact.
Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Components:
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:
Carcinogenicity - Assessment
Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

MINERAL OIL:
Carcinogenicity - Assessment
Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
Carcinogenicity - Assessment
Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

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 on OSHA's list of regulated carcinogens.

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.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

Components:
ALKYL METHACRYLATE:
Assessment
May cause respiratory irritation.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
May be fatal if swallowed and enters airways.

Components:
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:
No aspiration toxicity classification

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
May be fatal if swallowed and enters airways.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
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

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.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Toxicity to fish:
- LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
  Exposure time: 96 h
  Test Type: static test
  Test substance: WAF
  Method: OECD Test Guideline 203
  Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates:
- EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
aquatic invertebrates

Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae

Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to fish (Chronic toxicity)

Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

ALKYL METHACRYLATE:
Ecotoxicology Assessment
Short-term (acute) aquatic hazard

Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Biodegradability: Result: Not readily biodegradable.
Biodegradation: 2 - 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Partition coefficient: n-octanol/water

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
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.

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>
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</table>
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

EPCRA - Emergency Planning and Community Right-to-Know Act

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
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<td>XYLENE</td>
<td>1330-20-7</td>
<td>100</td>
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*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation
Respiratory or skin sensitisation
Aspiration hazard

California Prop. 65
This product contains a chemical that is at or below California Propositions 65’s "safe harbor level" for carcinogenicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

The components of this product are reported in the following inventories:
- DSL: All components of this product are on the Canadian DSL
- AICS: Not 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
- TCSI: Not in compliance with the inventory
- TSCA: On TSCA Inventory

TSCA list
No substances are subject to TSCA 12(b) export notification requirements.

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: 02/14/2019

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS III</th>
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NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

Full text of H-Statements
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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
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