

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 1 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ TYPE F
AUTOMATIC TRANSMISSION FLUID

Recommended use of the chemical and restrictions on use

| | |
|--|---|
| Details of the supplier of the safety data sheet Ashland P.O. Box 2219 Columbus, OH 43216 United States of America EHS Customer Requests@ashland.com | Emergency telephone number 1-800-ASHLAND (1-800-274-5263) Regulatory Information Number 1-800-325-3751 Product Information 614-790-3333 |
|--|---|

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

| Chemical Name | CAS-No. | Classification | Concentration (%) |
|---------------|---------|---------------------------------------|-------------------|
| MINERAL OIL | | Not a hazardous substance or mixture. | 7.64 |

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 2 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

| | | | |
|--|------------|---------------------|------|
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | Asp. Tox. 1; H304 | 7.38 |
| METHACRYLATE COPOLYMER | | Eye Irrit. 2A; H319 | 1.52 |

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. |

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 3 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

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
- 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

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 4 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

the technological safety standards.

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 |
|--|------------|----------------------------------|---|--------------|
| MINERAL OIL | | REL | 5 mg/m3 Mist. | NIOSH/GUID E |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUID E |
| | | PEL | 5 mg/m3 Mist. | OSHA_TRA NS |
| | | TWA | 5 mg/m3 Mist. | TN OEL |
| | | TWA | 5 mg/m3 Inhalable fraction. | ACGIH |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | REL | 5 mg/m3 Mist. | NIOSH/GUID E |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUID E |
| | | PEL | 5 mg/m3 Mist. | OSHA_TRA NS |

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).

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 5 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : red

Odour : hydrocarbon-like

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 : > 390 °F / > 199 °C
Method: Cleveland open cup

Evaporation rate : > 1
Ethyl Ether

Flammability (solid, gas) : No data available

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

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

Vapour pressure : 0.0133333 hPa (21.11 °C)
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 0.87 (15.6 °C)

Density : 0.8750 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

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 6 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID 822387 | | Version: 1.0 |

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.

Conditions to avoid : excessive heat

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.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

MINERAL OIL:

Result: Mildly irritating to skin

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

METHACRYLATE COPOLYMER:

Result: Not irritating to skin

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 7 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

MINERAL OIL:

Result: Mildly irritating to eyes

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

METHACRYLATE COPOLYMER:

Result: 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.

Components:

HYDROTREATED LIGHT 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.

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 8 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

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 : No data available
information

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

REGULATION

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

U.S. DOT - ROAD

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

U.S. DOT - RAIL

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

U.S. DOT - INLAND WATERWAYS

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

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 9 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

TRANSPORT CANADA - ROAD

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

TRANSPORT CANADA - RAIL

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

TRANSPORT CANADA - INLAND WATERWAYS

| |
|---------------------|
| 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 |
| |

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

| |
|---------------------|
| 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) : 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.
SARA 313

Pennsylvania Right To Know

HEAVY PARAFFINIC DISTILLATE

64742-54-7

90.00 -

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 10 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

| | | |
|-------------|--------------|----------------------------|
| MINERAL OIL | Not Assigned | 100.00 % 5.00 - 10.00 % |
|-------------|--------------|----------------------------|

| | | |
|--|------------|----------------|
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | 5.00 - 10.00 % |
|--|------------|----------------|

New Jersey Right To Know

| | | |
|-----------------------------|--------------|---------------------|
| HEAVY PARAFFINIC DISTILLATE | 64742-54-7 | 90.00 - 100.00 % |
| MINERAL OIL | Not Assigned | 5.00 - 10.00 % |

| | | |
|--|------------|----------------|
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | 5.00 - 10.00 % |
|--|------------|----------------|

| | | |
|------------------------|--------------|---------------|
| METHACRYLATE COPOLYMER | Not Assigned | 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 | : On the inventory, or in compliance with the inventory |
| ENCS | : On the inventory, or in compliance with the inventory |
| KECL | : On the inventory, or in compliance with the inventory |
| PICCS | : On the inventory, or in compliance with the inventory |
| IECSC | : On the inventory, or in compliance with the inventory |

Inventories

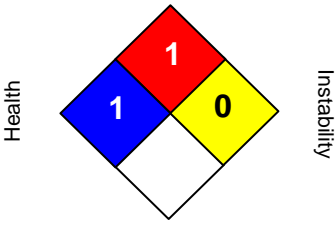
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 11 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/23/2015

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

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

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

H304 May be fatal if swallowed and enters airways.

Sources of key data used to compile the Safety Data Sheet

Ashland 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 Ashland's Environmental Health and Safety Department (1-800-325-3751).

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.

| | | |
|--|--|---------------------------|
| ASHLAND® | | Page: 12 |
| SAFETY DATA SHEET | | Revision Date: 05/23/2015 |
| | | Print Date: 6/29/2015 |
| | | SDS Number: R0102925 |
| Valvoline™ TYPE F AUTOMATIC TRANSMISSION FLUID | | Version: 1.0 |
| 822387 | | |

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