		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 09/19/2019
		Print Date: 11/24/2020
		SDS Number: 000000275342
Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid ™ Trademark, Valvoline or its subsidiaries, registered in various countries 888705		Version: 1.1

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various countries

<p><b>Details of the supplier of the safety data sheet</b> Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)</p> <p>SDS@valvoline.com</p>	<p><b>Emergency telephone number</b> 1-800-VALVOLINE (1-800-825-8654)</p> <p><b>Regulatory Information Number</b> 1-800-TEAMVAL (1-800-832-6825)</p> <p><b>Product Information</b> 1-800-TEAMVAL (1-800-832-6825)</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

This material is considered hazardous under the OSHA Hazard Communication Standard criteria, based on hazard(s) not otherwise classified.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

Static-accumulating flammable liquid.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	>=50.00 - < 60.00
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY		Not a hazardous substance or mixture.	>=1.50 - < 5.00

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 888705

PARAFFINIC METHACRYLATE COPOLYMER		Eye Irrit. 2A; H319	>=1.50 - < 5.00
PETROLEUM DISTILLATES	64742-55-8	Asp. Tox. 1; H304	>=1.50 - < 5.00
Sulfurized long-chain alkyl acid esters		Skin Irrit. 2; H315	>=1.00 - < 1.50

**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 : No symptoms known or expected.
- 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



**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various countries  
888705

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  
Aldehydes

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

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries  
 888705

Version: 1.1

place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC		TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
PETROLEUM DISTILLATES	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL



**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various countries  
888705

Version: 1.1

**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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : 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 : 394 - 480 °F / 201 - 249 °C  
Method: Cleveland open cup
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
888705

Flammability (liquids)	:	Static-accumulating flammable liquid.
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	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.851 g/cm <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	No data available
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	:	35.16 mm <sup>2</sup> /s (104 °F / 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	:	alkalis Oxidizing agents Strong acids

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
888705

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:****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.

**PETROLEUM DISTILLATES:**

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.

**Components:****HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Species : Rabbit  
Result : No skin irritation

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
888705

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

**METHACRYLATE COPOLYMER:**

Result : Slight, transient irritation

**PETROLEUM DISTILLATES:**

Species : Rabbit  
Result : No skin irritation

**Sulfurized long-chain alkyl acid esters:**

Result : Irritating to skin.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

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

**Components:****HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Species : Rabbit  
Result : No eye irritation

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Result : Slight, transient irritation  
Assessment : Slight, transient irritation

**METHACRYLATE COPOLYMER:**

Result : Irritating to eyes.

**PETROLEUM DISTILLATES:**

Species : Rabbit  
Result : No eye irritation

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.

**PETROLEUM DISTILLATES:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
888705

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Components:****HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

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

**DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

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

**PETROLEUM DISTILLATES:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation  
Assessment (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.

**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.

**PETROLEUM DISTILLATES:**

May be fatal if swallowed and enters airways.

**Further information****Product:**

Remarks : No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 888705

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

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l  
 Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia (water flea)): 10 mg/l  
 Exposure time: 21 d  
 Test substance: WAF  
 Method: OECD Test Guideline 211

**PETROLEUM DISTILLATES:**

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 : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

 Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 888705

aquatic invertebrates

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

Toxicity to algae

 : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

 : NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l  
 Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

 : NOEL (Daphnia (water flea)): 10 mg/l  
 Exposure time: 21 d  
 Test substance: WAF  
 Method: OECD Test Guideline 211

**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

PETROLEUM DISTILLATES:

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

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:**

**SAFETY DATA SHEET**

Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Version: 1.1

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
888705

**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 Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**


Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

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****CERCLA Reportable Quantity**

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 09/19/2019
		Print Date: 11/24/2020
		SDS Number: 000000275342
Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid ™ Trademark, Valvoline or its subsidiaries, registered in various countries 888705		Version: 1.1

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
XYLENE	1330-20-7	100	*

\*: 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** : Hazard not otherwise classified (physical hazards)

**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 : On the inventory, or in compliance with the inventory
- ENCS : Not 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 : On the inventory, or in compliance with the inventory
- TCSI : On the inventory, or 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)

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**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date: 09/19/2019

<b>NFPA:</b>	<b>HMIS III:</b>
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**SAFETY DATA SHEET**

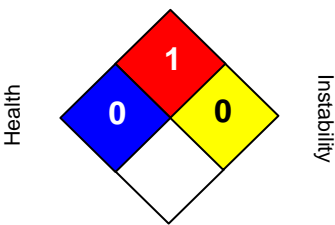
Revision Date: 09/19/2019

Print Date: 11/24/2020

SDS Number: 000000275342

Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries  
 888705

Version: 1.1

<p>Flammability</p>  <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td style="background-color: blue; color: white;"><b>HEALTH</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="background-color: red; color: white;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: yellow;"><b>PHYSICAL HAZARD</b></td> <td style="text-align: center;"><b>0</b></td> </tr> </table> <p>0 = not significant, 1 =Slight,                  2 = Moderate, 3 = High                  4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>0</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>0</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

**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.
- H319                      Causes serious eye 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.

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 09/19/2019
	Print Date: 11/24/2020
	SDS Number: 000000275342
Valvoline™ DUAL CLUTCH FULL SYNTHETIC Transmission Fluid ™ Trademark, Valvoline or its subsidiaries, registered in various countries 888705	Version: 1.1

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