

Revision Date: 06/08/2015

Print Date: 6/29/2015 SDS Number: R0382635

Version: 1.3

## Valvoline™ ATF+4® FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID

VV346

#### 29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

## **Product identifier**

Trade name

: Valvoline™ ATF+4® FULL SYNTHETIC AUTOMATIC TRANSMISSION FLUID

#### **Recommended use of the chemical and restrictions on use** Use of the Substance/Mixture : Engine, gear & lubricating oil.

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

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification	
Skin sensitization	: Category 1
GHS Label element	
Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: May cause an allergic skin reaction.
Precautionary Statements	<ul> <li>If medical advice is needed, have product container or label at hand.</li> <li>Keep out of reach of children.</li> <li>Read label before use.</li> <li>Prevention:</li> <li>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</li> <li>Contaminated work clothing must not be allowed out of the workplace.</li> <li>Wear protective gloves.</li> </ul>

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#### Response:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. **Disposal:** Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

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

Substance / Mixture	:	Mixture
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Chemical nature : Defatter

#### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Not a hazardous substance or mixture.	59.33
HEAVY PARAFFINIC DISTILLATE	64742-54-7	Asp. Tox. 1; H304	25.66
Mineral Oil		Asp. Tox. 1; H304	3.10
BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS		Eye Irrit. 2A; H319 Skin Sens. 1; H317	0.77
DODECYL HYDROXYPROPYL SULFIDE	67124-09-8	Skin Sens. 1; H317	0.77
POLYMER		Skin Sens. 1; H317	0.38

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SECTION 4. FIRST AID MEASURE	ES
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	<ul> <li>If breathed in, move person into fresh air.</li> <li>If unconscious place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of skin contact	<ul> <li>Remove contaminated clothing. If irritation develops, get medical attention.</li> <li>If on skin, rinse well with water.</li> <li>First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.</li> <li>Wash contaminated clothing before re-use.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	<ul> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>
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) May cause an allergic skin reaction.
Notes to physician	: No hazards which require special first aid measures.

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# 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 Aldehydes
Specific extinguishing methods	:	
		Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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	se personal protective equipment. ersons not wearing protective equipment sl om area of spill until clean-up has been cor	
Environmental precautions	revent product from entering drains. revent further leakage or spillage if safe to the product contaminates rivers and lakes espective authorities.	
Methods and materials for containment and cleaning up	oak up with inert absorbent material (e.g. s cid binder, universal binder, sawdust). eep in suitable, closed containers for dispo	-
Other information	omply with all applicable federal, state, and	l local regulations.

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#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>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.</li> <li>Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes.</li> <li>Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> </ul>
Conditions for safe storage	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> </ul>

## 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	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS

Engine	anina	magelirae
Linging	sering	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-	

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proof safety g into eyes.	oggles if material could be misted or splashed

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.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Physical state	:	liquid
Colour	:	red
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
	:	No data available
	:	No data available
Flash point	:	> 390 °F / > 199 °C Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	6 %(V) Coloulated Explaniva Limit
Lower explosion limit	:	Calculated Explosive Limit 1 %(V)
Vapour pressure	:	Calculated Explosive Limit 0.0133333 hPa (21.11 °C) Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	0.854 (15.6 °C)
Density	:	0.8508 g/cm3 (15.56 °C)

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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	:	< 10,000 mPa.sMethod: Brookfield
Viscosity, kinematic	:	ca. 34 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.
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	:	Inhalation
exposure		Skin contact
		Eye Contact
		Ingestion

#### Acute toxicity

Not classified based on available information. **Components:** 



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HEAVY PARAFFINIC DISTILLATE:<br/>Acute oral toxicity: LD 50 (Rat): > 15 g/kgAcute dermal toxicity: LD 50 (Rabbit): > 5 g/kgDODECYL HYDROXYPROPYL SULFIDE:<br/>Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg<br/>GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information. <u>Product:</u> Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

#### Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: Result: Mildly irritating to skin

HEAVY PARAFFINIC DISTILLATE: Result: Mildly irritating to skin

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS: Result: Possibly irritating to skin

DODECYL HYDROXYPROPYL SULFIDE: Species: Rabbit Result: Not irritating to skin

POLYMER: Result: Not 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: Unlikely to cause eye irritation or injury.

#### Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: Result: Mildly irritating to eyes

HEAVY PARAFFINIC DISTILLATE: Result: Not irritating to eyes

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS: Result: Irritating to eyes



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DODECYL HYDROXYPROPYL SULFIDE: Species: Rabbit Result: Not irritating to eyes

POLYMER: Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction. Respiratory sensitisation: Not classified based on available information. <u>Components:</u> BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS: Assessment: May cause sensitization by skin contact.

DODECYL HYDROXYPROPYL SULFIDE:

Assessment: May cause sensitization by skin contact. Result: May cause sensitization by skin contact.

POLYMER:

Assessment: May cause sensitization by skin contact.

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

Further information <u>Product:</u> Remarks: No data available

Carcinogenicity: IARC

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.

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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 HEAVY PARAFFINIC DISTILLA	ATE:
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
DODECYL HYDROXYPROPYL	L SULFIDE:
Toxicity to fish	<ul> <li>LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.75 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes</li> </ul>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC 50 (Daphnia magna (Water flea)): 0.5 mg/l Exposure time: 21 d End point: see user defined free text Test Type: see user defined free text Method: OECD Test Guideline 211 GLP: yes
<b>Persistence and degradability</b> No data available	у
Bioaccumulative potential	
No data available	
Mobility in soil No data available	
Other adverse effects	
No data available	
Product:	

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Additional ecological	: An environmental hazard cannot be excluded in the event of
information	unprofessional handling or disposal., Harmful to aquatic life
	with long lasting effects.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of in accordance with all applicable local, state and federal regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Do not re-use empty containers.</li> </ul>

# SECTION 14. TRANSPORT INFORMATION

#### International transport regulations

#### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	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

# TRANSPORT CANADA - ROAD

Not dangerous goods

#### **TRANSPORT CANADA - RAIL**

Not dangerous goods

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#### 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

no

Not dangerous goods

#### \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant

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	:	Acute Health Hazard		
SARA 313 Component(s)	SARA 313 known CAS numbers th		known CAS numbers that e	ontain any chemical components with at exceed the threshold (De Minimis) ned by SARA Title III, Section 313.	
Pennsylvania	Right To Know HYDROTREA DISTILLATE		ED LIGHT PARAFFINIC	64742-55-8	50.00 - 70.00 %
	HEAVY PARA	١F	FINIC DISTILLATE	64742-54-7	20.00 - 30.00 %
	POLYMER			Not Assigned	5.00 - 10.00 %
	LUBRICANT	٩C	DITIVE	Not Assigned	1.00 - 5.00 %

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Mineral Oil	Not Assigned	1.00 - 5.00 %
New Jersey Right To Know HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	50.00 - 70.00 %
HEAVY PARAFFINIC DISTILLATE	64742-54-7	20.00 - 30.00 %
POLYMER	Not Assigned	5.00 - 10.00 %
LUBRICANT ADDITIVE	Not Assigned	1.00 - 5.00 %
Mineral Oil	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 prod TSCA	luct are reported in the following inventories: : On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AUSTR	: On the inventory, or in compliance with the inventory
NZIOC	: Not in compliance with the inventory
ENCS	: Not 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

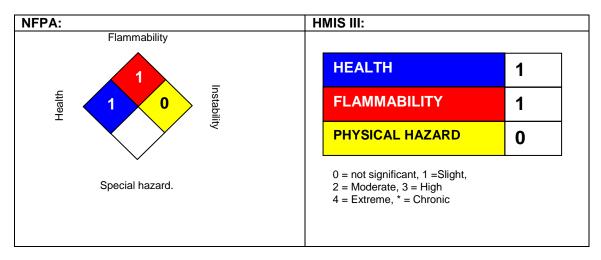
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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## **SECTION 16. OTHER INFORMATION**

## Further information

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

#### Further information

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

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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