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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 sheet	Emergency telephone number
	Product Information

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 : If medical advice is needed, have product container or label at

hand.

Keep out of reach of children. Read label before use.

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.

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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

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

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.

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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.

: Flush eyes with water as a precaution. In case of eye contact

> Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary

abnormalities.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

acne

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways) May cause an allergic skin reaction.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

: Use extinguishing measures that are appropriate to local Suitable extinguishing media

circumstances and the surrounding environment.

Water spray

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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

: 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.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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.

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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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

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

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

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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

pH : No data available

: No data available

: No data available

Flash point : $> 390 \, ^{\circ}\text{F} \, / > 199 \, ^{\circ}\text{C}$

Method: Cleveland open cup

Evaporation rate : No data available

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 : 0.854 (15.6 °C)

Density : 0.8508 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

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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:

HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD 50 (Rat): > 15 g/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg

DODECYL HYDROXYPROPYL SULFIDE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

GLP: yes

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

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Skin corrosion/irritation

Not classified based on available information.

Product:

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

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.

Components:

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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

Product:

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

HEAVY PARAFFINIC DISTILLATE:

Toxicity to fish : LL50 (Fish): > 100 mg/l

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aquatic invertebrates

Toxicity to daphnia and other : 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

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l

DODECYL HYDROXYPROPYL SULFIDE:

Toxicity to fish : 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

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

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

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice The product should not be allowed to enter drains, water

courses or the soil.

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

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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

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	

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

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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

117.0120			
Not dangerous goods			

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	
		ĺ

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard

SARA 313

Component(s)SARA 313

: 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.

Pennsylvania Right To Know

HYDROTREATED LIGHT PARAFFINIC 64742-55-8 50.00 - 70.00 % **DISTILLATE** 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 % **New Jersey Right To Know** HYDROTREATED LIGHT PARAFFINIC 64742-55-8 50.00 - 70.00 % DISTILLATE 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 %

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

Not Assigned

1.00 - 5.00 %

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

Mineral Oil

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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

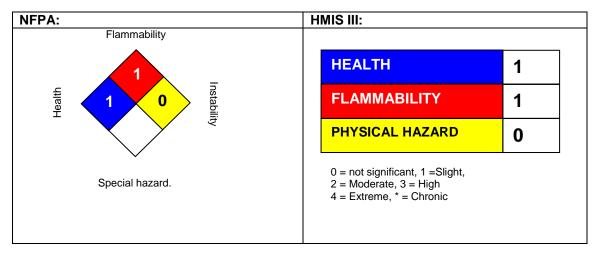
Inventories

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

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.

H304 May be fatal if swallowed and enters airways.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet

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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.

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

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RTK : Right to Know WHMIS : Workplace Hazardous Materials Information System