



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Valvoline™ ATF DEX/MERC
Automatic Transmission Fluid

Product code : 866913

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Gear and lubricating oil.

1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands
+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SDS@valvoline.com

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 112

Product Information

+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard,
Category 3

H412: Harmful to aquatic life with long lasting
effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412

Harmful to aquatic life with long lasting
effects.

Precautionary statements : P103

Read carefully and follow all instructions.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

P102
P101
Prevention:
P273
Disposal:
P501

Keep out of reach of children.
If medical advice is needed, have product container or label at hand.
Avoid release to the environment.
Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH208 Contains 1-(tert-Dodecylthio)propan-2-ol, 1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 01-2119487077-29-xxxx	Asp. Tox.1; H304	>= 90,00 - <= 100,00
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 1,00 - < 2,50
1-(tert-Dodecylthio)propan-2-ol	67124-09-8 266-582-5 01-2119953277-30-xxxx	Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,50 - < 1,00
1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.	482-000-4 01-0000020142-86-xxxx	Skin Sens.1B; H317 Aquatic Chronic3; H412	>= 0,25 - < 0,50
2,2'-(C16-18	1218787-32-6	Acute Tox.4; H302	>= 0,025 - < 0,10



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

(evennumbered, C18 unsaturated) alkyl imino) diethanol	620-540-6 01-2119510877-33-xxxx	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic2; H411	
2-(2-Heptadec-8-enyl- 2-imidazolin-1- yl)ethanol	95-38-5 202-414-9 01-2119777867-13-xxxx	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	$\geq 0,025 - < 0,10$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the
application area.
For personal protection see section 8.

Advice on protection against : Normal measures for preventive fire protection.
fire and explosion

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Containers which are opened must be carefully resealed and
areas and containers kept upright to prevent leakage.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

: End Use: **Workers**
Exposure routes: **Inhalation**
Potential health effects: **Long-term systemic effects**
Value: **0,46 mg/m3RD TOX - Repeated dose toxicity**
End Use: **Workers**
Exposure routes: **Inhalation**
Potential health effects: **Acute systemic effects**
Value: **14 mg/m3RD TOX - Repeated dose toxicity**
End Use: **Workers**
Exposure routes: **Dermal**
Potential health effects: **Long-term systemic effects**
Value: **0,06 mg/kgRD TOX - Repeated dose toxicity**
End Use: **Workers**
Exposure routes: **Dermal**
Potential health effects: **Acute systemic effects**
Value: **2 mg/kgRD TOX - Repeated dose toxicity**

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

: **Sewage treatment plant**
Value: **0,27 mg/l**
Fresh water sediment
Value: **0,376 mg/kg**
Marine sediment
Value: **0,0376 mg/kg**
Soil
Value: **0,075 mg/kg**

8.2 Exposure controls

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

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

Remarks : Nitrile rubber butyl-rubber

Skin and body protection : Wear as appropriate:
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Protective measures : Always have on hand a first-aid kit, together with proper instructions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: red
Odour	: oily
Odour Threshold	: No data available
pH	: Not applicable
Pour point	: < -42 °C
Boiling point/boiling range	: No data available
Flash point	: 214 °C Method: Cleveland open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: 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	: ca. 0,857 g/cm ³ (15,6 °C)
Solubility(ies) Water solubility	: insoluble



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

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 : ca. 34 mm²/s (40 °C)

Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat

10.5 Incompatible materials

Materials to avoid : strong mineral acids
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 15 g/kg
Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

Components:

DODECYL HYDROXYPROPYL SULFIDE:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
GLP: yes
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Components:

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:

Acute oral toxicity : LD50 (Rat, female): 1.200 mg/kg
Method: OECD Test Guideline 425

Components:

OLEYL HYDROXYETHYL IMIDAZOLINE:

Acute oral toxicity : LD50 (Rat): ca. 1.265 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

DODECYL HYDROXYPROPYL SULFIDE:



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Species: Rabbit
Result: No skin irritation

1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:

Result: Slight, transient irritation

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:

Result: Corrosive after 1 to 4 hours of exposure

OLEYL HYDROXYETHYL IMIDAZOLINE:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Slight, transient irritation
Remarks: Expected based on components.

Remarks: Unlikely to cause eye irritation or injury.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

DODECYL HYDROXYPROPYL SULFIDE:

Species: Rabbit
Result: No eye irritation

1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:

Result: Slight, transient irritation

OLEYL HYDROXYETHYL IMIDAZOLINE:

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:

DODECYL HYDROXYPROPYL SULFIDE:



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Test Type: Local lymph node assay
Species: Guinea pig
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 429

1,2-PROPANEDIOL, 3-AMINO, N,N-DICOCO ALKYL DERIVS.:

Assessment: The product is a skin sensitiser, sub-category 1B.

OLEYL HYDROXYETHYL IMIDAZOLINE:

Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

DODECYL HYDROXYPROPYL SULFIDE:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

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)

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.

Components:

OLEYL HYDROXYETHYL IMIDAZOLINE:

Exposure routes: Ingestion
Target Organs: Gastrointestinal tract, thymus gland
Assessment: May cause damage to organs through prolonged or repeated exposure.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Aspiration toxicity

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

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: 10 mg/l**
Species: **Fish**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 10 mg/l**
Species: **Aquatic invertebrates**

1-(tert-Dodecylthio)propan-2-ol

Toxicity to fish : **LC50 (Oncorhynchus mykiss (rainbow trout)): 0,75 mg/l**
Exposure time: **96 h**
Test Type: **semi-static test**
Method: **OECD Test Guideline 203**
GLP: **yes**



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Toxicity to daphnia and other aquatic invertebrates	: EL50 (<i>Daphnia magna</i> (Water flea)): 0,58 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF
Toxicity to algae	: EL50 (<i>Desmodesmus subspicatus</i> (green algae)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF
M-Factor (Short-term (acute) aquatic hazard)	: 1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL: 0,32 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes
M-Factor (Long-term (chronic) aquatic hazard)	: 1

1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS. Ecotoxicology Assessment

Long-term (chronic) aquatic hazard	: Harmful to aquatic life with long lasting effects.
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2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Toxicity to fish	: LC50 (<i>Danio rerio</i> (zebra fish)): 0,1 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): 0,043 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 0,0867 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 NOEC (<i>Pseudokirchneriella subcapitata</i> (green algae)): 0,0156 mg/l



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

	Exposure time: 72 h
M-Factor (Short-term (acute) aquatic hazard)	: 10
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50: 0,0463 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211
M-Factor (Long-term (chronic) aquatic hazard)	: 1

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 0,3 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,163 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 0,03 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Short-term (acute) aquatic hazard)	: 10
M-Factor (Long-term (chronic) aquatic hazard)	: 1

12.2 Persistence and degradability

Components:

1-(tert-Dodecylthio)propan-2-ol

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 5 % Exposure time: 28 d Method: OECD Test Guideline 301F
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1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

Biodegradability : Result: **Not readily biodegradable.**

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Biodegradability : Inoculum: **activated sludge**
Concentration: **2,7 mg/l**
Result: **Readily biodegradable.**
Biodegradation: **63 %**
Related to: **Chemical oxygen demand**
Exposure time: **28 d**
Method: **OECD Test Guideline 301D**

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **1 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301B**

12.3 Bioaccumulative potential

Components:

1-(tert-Dodecylthio)propan-2-ol

Partition coefficient: n-octanol/water : log Pow: **4,7 - 6,5**

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

Partition coefficient: n-octanol/water : log Pow: **8**

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

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.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
- Do not contaminate ponds, waterways or ditches with chemical or used container.
Container hazardous when empty.
Dispose of in accordance with local regulations.
- The product should not be allowed to enter drains, water courses or the soil.
- 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.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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.



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1005/2009 on substances that
deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic
pollutants : Not applicable

REACH - List of substances subject to authorisation
(Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High
Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European
Parliament and the Council concerning the export and
import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
preparations and articles (Annex XVII) : Not applicable

Directive 96/82/EC does not apply

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of
major-accident hazards involving dangerous substances.
Not applicable

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



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

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

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)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000098044

Full text of H-Statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other information	: 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
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SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

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 ('+31 (0)78 654 3500).

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.

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



SAFETY DATA SHEET

Valvoline™ ATF DEX/MERC Automatic
Transmission Fluid

Version: 4.0

Revision Date: 04.09.2020

Print Date: 28/09/2022

ABM : Water Hazard Class for the Netherlands
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
CLP : Classification, Labelling and Packaging
CSA : Chemical Safety Assessment
CSR : Chemical Safety Report
DNEL : Derived No Effect Level.
EINECS : European Inventory of Existing Commercial Chemical Substances.
ELINCS : European List of Notified Chemical Substances
PEC : Predicted Effect Concentration
PEL : Permissible Exposure Limits
PNEC : Predicted No Effect Concentration
R-pharse : Risk phrase
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
S-pharse: Safety phrase
WGK : German Water Hazard Class