

MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

### **SECTION 1. IDENTIFICATION**

Product name : MaxLife™ Full Synthetic Multi-Vehicle Automatic

Transmission Fluid

Product code : VV3246

Manufacturer or supplier's details

Company name of supplier : Valvoline LLC

Address : 100 Valvoline Way

Lexington, KY 40509

United States of America (USA)

Telephone : 1-800-TEAMVAL (1-800-832-6825)

E-mail address : SDS@valvoline.com

Emergency telephone

number

: +1-800-VALVOLINE (+1-800-825-8654)

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

# **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

# **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

# Other hazards

None known.

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



MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (Petroleum), Hydrotreated	64742-54-7	>= 70 - < 80
Heavy Paraffinic		
DISTILLATES (PETROLEUM),	64742-54-7	>= 10 - < 15
HYDROTREATED HEAVY		
PARAFFINIC		
DISTILLATES (PETROLEUM),	64742-54-7	>= 1.5 - < 5
HYDROTREATED HEAVY		
PARAFFINIC		
LUBRICATING OILS, PETROLEUM,	72623-86-0	>= 1.5 - < 5
C15-30, HYDROTREATED		
Short-, medium- and long-chain alkyl	Not Assigned	>= 1.5 - < 5
methacrylates and short-chain alkyl		
methacrylamide copolymer		
PETROLEUM DISTILLATES	64742-55-8	>= 1 - < 1.5
distillates (petroleum), hydrotreated	64742-55-8	>= 1 - < 1.5
light paraffinic		

Actual concentration is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

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 : Treat symptomatically.

No hazards which require special first aid measures.



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Revision Date: 02/06/2023 Version: 1.27 Print Date: 04/10/2023

### **SECTION 5. FIREFIGHTING MEASURES**

Hazardous combustion

products

carbon dioxide and carbon monoxide

Further information Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Environmental precautions** If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

### **SECTION 7. HANDLING AND STORAGE**

fire and explosion

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

Advice on safe handling For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Electrical installations / working materials must comply with Conditions for safe storage

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on

storage stability

: No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control	Basis
		` ` `	parameters /	
		exposure)	Permissible	



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

			concentration	
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
PETROLEUM DISTILLATES	64742-55-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

# Personal protective equipment

Respiratory protection : Respiratory protection is not required under normal

conditions of use.

No personal respiratory protective equipment normally

required.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid



# MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Colour : red

Odour : mild

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : > 424 °F / 218 °C

(1013 hPa)

Flash point : 394 - 480 °F / 201 - 249 °C

Method: Cleveland open cup

Evaporation rate : < 1

Ethyl Ether

Flammability (solid, gas) : No data available

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 : 1 hPa

Calculated Vapor Pressure

Relative vapour density : > 1

AIR=1

Relative density : No data available

Density : 0.837 g/cm3 (60.01 °F / 15.56 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n- : No data available

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MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

octanol/water

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 28.8 mm2/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 : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products are known.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Not classified based on available information.

### Components:

# Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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

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

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

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

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

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

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

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# **SAFETY DATA SHEET**

MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

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

**LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:** 

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: The substance or mixture has no acute

inhalation toxicity

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Remarks: No mortality observed at this dose.

distillates (petroleum), hydrotreated light paraffinic:

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: The substance or mixture has no acute

inhalation toxicity

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:

# Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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

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

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

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

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

# **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Species : Rabbit

Result : No skin irritation

# distillates (petroleum), hydrotreated light paraffinic:

Species : Rabbit

Result : No skin irritation

# Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Result : Slight, transient irritation

Remarks : Expected based on components.

### **Components:**

# Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Result : No eye irritation
Assessment : No eye irritation

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

Result : No eye irritation
Assessment : No eye irritation

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Result : No eye irritation
Assessment : No eye irritation

# **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**

Species : Rabbit

Result : No eye irritation

# Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide

copolymer:

Result : Eye irritation

# distillates (petroleum), hydrotreated light paraffinic:

Species : Rabbit

Result : No eye irritation

# Respiratory or skin sensitisation

# Skin sensitisation

Not classified based on available information.



MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

# Respiratory sensitisation

Not classified based on available information.

### Components:

# **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

### distillates (petroleum), hydrotreated light paraffinic:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

# Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

### Components:

# Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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)

### **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)

# distillates (petroleum), hydrotreated light paraffinic:

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.



MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

**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:**

# Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

May be fatal if swallowed and enters airways.

# DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

No aspiration toxicity classification

# **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

May be fatal if swallowed and enters airways.

# distillates (petroleum), hydrotreated light paraffinic:

No aspiration toxicity classification

# **Further information**

**Product:** 

Remarks : No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

# **Product:**

### **Ecotoxicology Assessment**



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Not classified based on available information. Acute aquatic toxicity

Chronic aquatic toxicity Not classified based on available information.

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/aquatic

plants

: EL50 (Algae, algal mat (Algae)): > 100 mg/l

Exposure time: 72 h

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

**Ecotoxicology Assessment** 

: Not classified based on available information. Acute aquatic toxicity

Not classified based on available information. Chronic aquatic toxicity

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

**Ecotoxicology Assessment** 

Not classified based on available information. Acute aquatic toxicity

Not classified based on available information. Chronic aquatic toxicity

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

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

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EL50 (Algae, algal mat (Algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

11 / 19



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

aquatic invertebrates (Chronic toxicity)

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

**Ecotoxicology Assessment** 

Acute aquatic toxicity Not classified based on available information.

Not classified based on available information. Chronic aquatic toxicity

**LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:** 

: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Toxicity to fish

> 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/aquatic

plants

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

**Ecotoxicology Assessment** 

: Not classified based on available information. Acute aquatic toxicity

Chronic aquatic toxicity : Not classified based on available information.

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MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**PETROLEUM DISTILLATES:** 

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

distillates (petroleum), hydrotreated light paraffinic:

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/aquatic

plants

NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 ma/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

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Not classified based on available information.



MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

Chronic aquatic toxicity : Not classified based on available information.

# Persistence and degradability

### Components:

# **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

# distillates (petroleum), hydrotreated light paraffinic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

# **Bioaccumulative potential**

### **Components:**

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

Partition coefficient: n-

octanol/water

: log Pow: Expected > 7

# Mobility in soil

No data available

# Other adverse effects

# **Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

: No data available



MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

### **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

# Special precautions for user

Not applicable

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**

# **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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# SAFETY DATA SHEET

MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

### **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.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# **US State Regulations**

# **Massachusetts Right To Know**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7
PETROLEUM DISTILLATES	64742-55-8
distillates (petroleum), hydrotreated light paraffinic	64742-55-8

### Pennsylvania Right To Know

Distillates (Petroleum), Hydrotreated Heavy Paraffinic DISTILLATES (PETROLEUM), HYDROTREATED HEAVY	64742-54-7 64742-54-7
PARAFFINIC PROPRIETARY COMPONENT OF HITEC 35300A -	Not Assigned
00000278944	J
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED	72623-86-0
Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer	Not Assigned
PETROLEUM DISTILLATES distillates (petroleum), hydrotreated light paraffinic	64742-55-8 64742-55-8

# **Maine Chemicals of High Concern**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7

# **Vermont Chemicals of High Concern**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7

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# **SAFETY DATA SHEET**

MaxLife™ Full Synthetic Multi-Vehicle Automatic Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

# **Washington Chemicals of High Concern**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7

# **California Permissible Exposure Limits for Chemical Contaminants**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7 DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7

**PARAFFINIC** 

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7

**PARAFFINIC** 

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

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or 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

NZIoC : On the inventory, or in compliance with the inventory

TECI: On the inventory, or in compliance with the inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

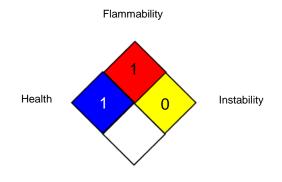
### **Further information**



MaxLife™ Full Synthetic Multi-Vehicle Automatic
Transmission Fluid

Version: 1.27 Revision Date: 02/06/2023 Print Date: 04/10/2023

### NFPA 704:



Special hazard

# HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate;



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NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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