	Page: 1
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil

Details of the supplier of the safety data sheet

Valvoline LLC
100 Valvoline Way
Lexington, KY 40509
United States of America (USA)
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

Emergency telephone number

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

Product Information

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

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification


No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Distillates, petroleum,solvent-refined heavy paraffinic	64741-88-4	Not a hazardous substance or mixture.	15.1
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	81.4
Lubricating Oils (petroleum)	64742-58-1	Not a hazardous substance or mixture.	2.1
Reaction products of	36878-20-3	Skin Corr/Irr 3; H316	1.4

		Page: 2
SAFETY DATA SHEET		Revision Date: 02/07/2018
		Print Date: 06.06.2019
		SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil		Version: 3.0
797977		


Benzeneamine, N-phenyl- with nonene (branched)		Aquatic Chronic 4; H413	
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4. FIRST AID MEASURES

General advice	: No hazards which require special first aid measures.
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: 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.
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)
Notes to physician	: No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam
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	Page: 3
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

Specific hazards during firefighting	Carbon dioxide (CO ₂) Dry chemical : Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: carbon dioxide and carbon monoxide Hydrocarbons nitrogen oxides (NO _x)
Specific extinguishing methods	: Standard procedure for chemical fires.
Special protective equipment for firefighters	Product is compatible with standard fire-fighting agents. : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: 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.
Environmental precautions	: Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.


7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Advice on safe handling	: Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Materials to avoid	: No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

		Page: 4
SAFETY DATA SHEET		Revision Date: 02/07/2018
		Print Date: 06.06.2019
		SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil		Version: 3.0
797977		

Distillates, petroleum,	64741-88-4	TWA (Mist)	5 mg/m3 Mist	VN OEL
		STEL (Mist)	10 mg/m3 Mist	VN OEL
PETROLEUM DISTILLATES	64742-54-7	TWA (Mist)	5 mg/m3 Mist	VN OEL
		STEL (Mist)	10 mg/m3 Mist	VN OEL

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

Respiratory protection : No personal respiratory protective equipment normally required.

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:
Safety shoes

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 201 - 249 °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

SAFETY DATA SHEET

Revision Date: 02/07/2018

Print Date: 06.06.2019

SDS Number: R0355879

Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil

Version: 3.0

797977

Relative density : No data available

Density : 0.868 g/cm³

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 102 mm²/s (40 °C)

Oxidizing properties : No data available

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 : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide
Hydrocarbons
Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation, Skin contact, Eye Contact, Ingestion

Acute toxicity

Not classified based on available information.

Components:

Distillates, petroleum,:

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


Acute inhalation toxicity : LC₅₀ (Rat): > 5.58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation under GHS.

Remarks: No mortality observed at this dose.

	Page: 6
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

PETROLEUM DISTILLATES:

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

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

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Not classified based on available information.

Components:

Distillates, petroleum,:

Species: Rabbit

Result: No skin irritation

PETROLEUM DISTILLATES:

Result: Slight, transient irritation

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Species: Rabbit

Result: Mild skin irritation

Remarks: Information given is based on data obtained from similar substances.

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:

Distillates, petroleum,:


Species: Rabbit

Result: No eye irritation

PETROLEUM DISTILLATES:

Result: No eye irritation

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

	Page: 7
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

Species: **Rabbit**
Result: **Slight, transient irritation**
Remarks: **Information given is based on data obtained from similar substances.**

Respiratory or skin sensitisation

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

Components:

Distillates, petroleum,:

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

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

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

Germ cell mutagenicity
Not classified based on available information.

Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

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.

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.

Product:

No aspiration toxicity classification

Components:

Distillates, petroleum,:

No aspiration toxicity classification

PETROLEUM DISTILLATES:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

12. ECOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: 02/07/2018

Print Date: 06.06.2019

SDS Number: R0355879

Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil

Version: 3.0

797977

Ecotoxicity
Components:

Distillates, petroleum,:

Toxicity to fish	: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: NOEL (Pseudokirchneriella subcapitata (green algae)): ≥ 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated ≥ 1,000 mg/l Exposure time: 14 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL (Daphnia (water flea)): 10 mg/l Exposure time: 21 d Test substance: WAF Method: OECD Test Guideline 211

PETROLEUM DISTILLATES:

Toxicity to fish	: LL50 (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 (Fish): 10 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Aquatic invertebrates): 10 mg/l

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test
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SAFETY DATA SHEET

Revision Date: 02/07/2018

Print Date: 06.06.2019

SDS Number: R0355879

Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil

Version: 3.0

797977

Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test

No data available

Persistence and degradability
Components:

Distillates, petroleum,:

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

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

No data available

Bioaccumulative potential
Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Partition coefficient: n-octanol/water : log Pow: > 7.5

No data available

Mobility in soil
Components:

No data available

Other adverse effects


No data available

Product:

Additional ecological information : No data available

Components:
13. DISPOSAL CONSIDERATIONS
Disposal methods

Contaminated packaging : Empty remaining contents.

		Page: 10
SAFETY DATA SHEET		Revision Date: 02/07/2018
		Print Date: 06.06.2019
		SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil		Version: 3.0
797977		

14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

UN_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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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.

15. REGULATORY INFORMATION

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


Law on Chemicals No. 06/2007/QH12

Law on Chemicals No. 06/2007/QH12 : 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 : On the inventory, or in compliance with the inventory

	Page: 11
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

ENCS : Contact your sales representative for additional information.

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

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)

16. OTHER INFORMATION

Further information

Revision Date: 02/07/2018

Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

H316 Causes mild skin irritation.

H413 May cause long lasting harmful effects to aquatic life.

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 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.

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).

	Page: 12
SAFETY DATA SHEET	Revision Date: 02/07/2018
	Print Date: 06.06.2019
	SDS Number: R0355879
Valvoline™ High Mileage with MaxLife™ Tech 10W-40 Motor Oil 797977	Version: 3.0

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

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

CN OEL : China. Occupational Exposure Limits

HK OEL : Hong Kong. Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace

IN OEL : India. Permissible levels of certain chemical substances in work environment.

ID OEL : Indonesia. Occupational Exposure Limits

JPJSH OEL : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits

JPISHL OEL : Japan. Administrative Control Levels

KOR OEL : Korea. Occupational Exposure Limits

MY OEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

PH OEL : Philippines. Threshold Limit Values For Airborne Contaminants

SG OEL : Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances

TW OEL : Taiwan. Standards on the Concentration Levels of Hazardous Substances in the Air at Workplace

TH OEL : Thailand. Occupational Exposure Limits

VN OEL : Vietnam. Occupational Exposure Limits