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#### SAFETY DATA SHEET Revision Date: 02/07/2018 Print Date: 8/2/2018 SDS Number: R0355563 Valvoline<sup>™</sup> High Mileage with MaxLife<sup>™</sup> Tech 10W-30 Motor Oil Version: 1.6 797976

#### 29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

#### Product identifier

Trade name

Valvoline<sup>™</sup> High Mileage with MaxLife<sup>™</sup> Tech 10W-30 Motor Oil

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline LLC	, , , , , , , , , , , , , , , , , , ,
100 Valvoline Way	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL (1-800-832-6825)
United States of America (USA)	
1-800-TEAMVAL (1-800-832-6825)	Product Information
(	1-800-TEAMVAL (1-800-832-6825)

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### **GHS** label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

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

Substance / Mixture : Mixture

Chemical nature : Defatter

#### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Distillates, petroleum, solvent- refined heavy paraffinic	64741-88-4	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	25.10



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Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	Asp. Tox. 1; H304	3.91
Lubricating oils (petroleum), hydrotreated		This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	1.0977

#### **SECTION 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



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stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)

Notes to physician : No haza	rds which require special first aid measures.
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#### **SECTION 5. FIREFIGHTING MEASURES**

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Suitable extinguishing media	<ul> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li> <li>Water spray</li> <li>Foam</li> <li>Carbon dioxide (CO2)</li> <li>Dry chemical</li> </ul>	
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 nitrogen oxides (NOx)	
Specific extinguishing methods	:	
	Product is compatible with standard fire-fighting agents.	
Further information	: Standard procedure for chemical fires.	
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	ersons not wearing protective equipment sh om area of spill until clean-up has been con	
Environmental precautions	revent further leakage or spillage if safe to c	lo so.
Methods and materials for containment and cleaning up	oak up with inert absorbent material (e.g. sa cid binder, universal binder, sawdust). Geep in suitable, closed containers for dispos	
Other information	comply with all applicable federal, state, and	local regulations.



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#### SECTION 7. HANDLING AND STORAGE

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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates, petroleum, solvent- refined heavy paraffinic	64741-88-4	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
Lubricating oils (petroleum), hydrotreated	64742-58-1	TWA	5 mg/m3 Inhalable fraction	ACGIH
Engineering measures	: General roor	n ventilation sh	ould be adequate for n	ormal

**gineering 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.



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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 resistant gloves (consult your safety equipment supplier). Wear as appropriate: Safety shoes
Hygiene measures :	General industrial hygiene practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	amber
Odour	:	mild
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	> 424 °F / > 218 °C (1013 hPa)
Flash point	:	> 390 °F / > 199 °C Method: Cleveland open cup
Evaporation rate	:	< 1
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 1.0 mmHg (20 °C)



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Relative vapour density	: >1AIR=1
Relative density	: No data available
Density	: 0.8687 g/cm3 (15.6 °C)
Solubility(ies)	No. 1. J
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	: ca. 70 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	: None known.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	carbon dioxide and carbon monoxide Hydrocarbons Nitrogen oxides (NOx)

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact



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Eye Contact Ingestion

Acute toxicity Not classified based on avai	able information.
Components: Distillates, petroleum, solver Acute oral toxicity	
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 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.</li> </ul>
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.
Distillates (Petroleum), Hydr Acute oral toxicity	
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg
Lubricating oils (petroleum), Acute oral toxicity	hydrotreated: : LD50 (Rat): > 2,000 mg/kg Assessment: Not classified as acutely toxic by ingestion under GHS.
Acute dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS.</li> </ul>
Skin corrosion/irritation Not classified based on avai <u>Product:</u> Result: Slight, transient irrita	
<u>Components:</u> Distillates, petroleum, solver Species: Rabbit Result: No skin irritation	nt-refined heavy paraffinic:
Distillates (Petroleum), Hydr Result: Slight, transient irrita	
Lubricating oils (petroleum), Result: No skin irritation	hydrotreated:



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Result: Repeated exposure may cause skin dryness or cracking.

#### 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, solvent-refined heavy paraffinic: Species: Rabbit Result: No eye irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic: Result: No eye irritation

Lubricating oils (petroleum), hydrotreated: Result: Slight, transient irritation

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. <u>Components:</u> Distillates, petroleum, solvent-refined heavy 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. **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, solvent-refined heavy paraffinic: No aspiration toxicity classification

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:



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May be fatal if swallowed and enters airways.

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Further information <u>Product:</u> 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 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.

#### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.
<u>Components:</u> Distillates, petroleum, solvent-re Toxicity to fish	efined heavy paraffinic: : 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	<ul> <li>EL50 (Daphnia magna (Water flea)): &gt; 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202</li> </ul>
Toxicity to algae	<ul> <li>NOEL (Pseudokirchneriella subcapitata (green algae)): &gt;= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201</li> </ul>



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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
Distillates (Petroleum), Hydrotr Toxicity to fish	eated Heavy Paraffinic: : 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
Lubricating oils (petroleum), hy Toxicity to daphnia and other aquatic invertebrates	drotreated: : LC50 (Brine shrimp (Artemia salina)): > 22,500 mg/l Exposure time: 48 h
Ecotoxicology Assessment Chronic aquatic toxicity	: No toxicity at the limit of solubility
Persistence and degradabilit <u>Components:</u> Distillates, petroleum, solvent-r Biodegradability	
No data available <b>Bioaccumulative potential</b> <u>Components:</u> No data available <u>Mobility in soil</u> <u>Components:</u> No data available <u>Other adverse effects</u> No data available	



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#### Product:

Additional ecological	:	No data available
information		

#### Components:

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

General advice	: Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	: Empty remaining contents.

#### SECTION 14. TRANSPORT INFORMATION

#### International transport regulations

#### REGULATION

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

#### MX\_DG

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

#### TDG\_INWT\_C

Not dangerous goods

#### TDG\_RAIL\_C

Not dangerous goods

TDG\_ROAD\_C



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Not dangerous goods

#### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

#### CFR\_RAIL\_C

Not dangerous goods

#### U.S. DOT - ROAD

Not dangerous goods

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

Marine pollutant	no

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

## EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity	, ,				
Components	CAS-No.	Component RQ	Calculated product RQ		
		(lbs)	(lbs)		
TOLUENE	108-88-3	1000	*		
*: Calculated RQ exceeds reason					
SARA 304 Extremely Hazardous	•	•			
This material does not contain any	components with a	section 304 EHS	RQ.		
SARA 311/312 Hazards	No SARA Hazards				
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.				
California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.				
The components of this product are reported in the following inventories:					
DSL :	All components of th	nis product are on	the Canadian DSL		
AICS :	On the inventory, or	in compliance wit	h the inventory		



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ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA Inventory

#### Inventories

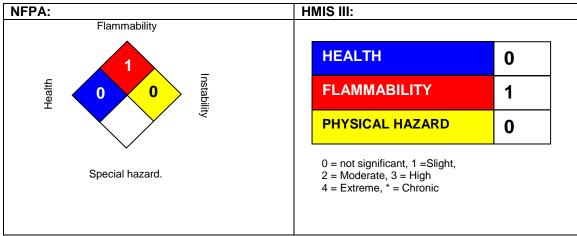
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### 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

H304 May be fatal if swallowed and enters airways.

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.



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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 (1-800-VALVOLINE).

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