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29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : Valvoline™ FULL SYNTHETIC WITH MAX. TECH. 5W-30

FULL SYNTHETIC MOTOR OIL

™ Trademark, Valvoline or its subsidiaries, regisred in various

countries

#### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE
Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509	Regulatory Information Number 1-800-TEAMVAL
United States of America	Product Information 1-800-TEAMVAL
SDS@valvoline.com	

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

### **GHS Classification**

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

## **GHS Label element**

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**

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HEAVY PARAFFINIC DISTILLATE	64742-54-7	Asp. Tox. 1; H304	26.48
ZINC DIALKYL DITHIOPHOSPHATE	68649-42-3	Skin Irrit. 2; H315 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	1.08

#### **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 : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

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

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

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

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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.

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

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

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

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 : Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for : Soak up with inert absorbent material (e.g. sand, silica gel,

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containment and cleaning up acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

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

Advice on safe handling : Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

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

### Components with workplace control parameters

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

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When using do not eat or drink. When using do not smoke.

#### **SECTION 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 : 626 °F / 330 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

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

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

Calculated Explosive Limit

Lower explosion limit : 1 %(V)

Calculated Explosive Limit

Vapour pressure : 1.3333333 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.853 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

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Viscosity, kinematic : ca. 63 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.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation
Skin contact

Eye Contact Ingestion

## **Acute toxicity**

Not classified based on available information.

# **Components:**

**HEAVY PARAFFINIC DISTILLATE:** 

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

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

ZINC DIALKYL DITHIOPHOSPHATE:

Acute oral toxicity : LD 50 (Rat): > 2,000 - 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

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Result: Repeated exposure may cause skin dryness or cracking.

### Components:

HEAVY PARAFFINIC DISTILLATE: Result: Mildly irritating to skin

ZINC DIALKYL DITHIOPHOSPHATE:

Result: Irritating to skin

### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Result: Slightly irritating to eyes

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Result: Not irritating to eyes

# ZINC DIALKYL DITHIOPHOSPHATE:

Result: Possibly irritating to eyes

# Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### 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:

## HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

### **Further information**

### **Product:**

Remarks: No data available

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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.

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

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

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

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

by NTP.

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

# **Ecotoxicity**

# Components:

**HEAVY PARAFFINIC DISTILLATE:** 

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

aquatic invertebrates

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

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

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

aquatic invertebrates (Chronic toxicity)

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

ZINC DIALKYL DITHIOPHOSPHATE:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

# Persistence and degradability

#### Components:

No data available

### Bioaccumulative potential

#### Components:

No data available

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### Mobility in soil

## **Components:**

No data available

#### Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

### **Components:**

### **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

General advice : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

### International transport regulations

# REGULATION

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

## **U.S. DOT - ROAD**

	0.0. DO 1 107	
ĺ		Not dangerous goods
ı		

#### CFR RAIL C

	Not dangerous goods

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

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	Not dangerous goods
DG_ROAD_C	
	Not dangerous goods
DG_RAIL_C	Not become a second
	Not dangerous goods
DO INIME O	
DG INWI C	
TDG_INWT_C	Not dangerous goods  AL MARITIME DANGEROUS GOODS  Not dangerous goods
NTERNATION	AL MARITIME DANGEROUS GOODS  Not dangerous goods
NTERNATION	AL MARITIME DANGEROUS GOODS  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - CARGO
NTERNATION	AL MARITIME DANGEROUS GOODS  Not dangerous goods
NTERNATIONA NTERNATIONA	AL MARITIME DANGEROUS GOODS  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - CARGO  Not dangerous goods
NTERNATIONA NTERNATIONA	AL MARITIME DANGEROUS GOODS  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - CARGO
NTERNATIONA NTERNATIONA	AL MARITIME DANGEROUS GOODS  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - CARGO  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - PASSENGER
NTERNATIONA NTERNATIONA	AL MARITIME DANGEROUS GOODS  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - CARGO  Not dangerous goods  AL AIR TRANSPORT ASSOCIATION - PASSENGER

Marine pollutant	no	
		ı

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**

SARA 311/312 Hazards : No SARA Hazards

SARA 313 Component(s)

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ZINC DIALKYL 68649-42-3 1.08 %

**DITHIOPHOSPHATE** 

84605-29-8

0.53 %

ACID, MIXED O,O-

BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,

**PHOSPHORODITHIOIC** 

ZINC SALTS

Pennsylvania Right To Know

HYDROTREATED HEAVY PARAFFINIC 64742-54-7 50.00 - 70.00 %

**BASE OIL** 

HEAVY PARAFFINIC DISTILLATE 64742-54-7 20.00 - 30.00 %

LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 %

HEAVY PARAFFINIC DISTILLATE 64742-54-7 1.00 - 5.00 %

**New Jersey Right To Know** 

HYDROTREATED HEAVY PARAFFINIC 64742-54-7 50.00 - 70.00 %

BASE OIL

HEAVY PARAFFINIC DISTILLATE 64742-54-7 20.00 - 30.00 %

LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 %

HEAVY PARAFFINIC DISTILLATE 64742-54-7 1.00 - 5.00 %

ZINC DIALKYL DITHIOPHOSPHATE 68649-42-3 1.00 - 5.00 %

DINONYL DIPHENYLAMINE 36878-20-3 1.00 - 5.00 %

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

based on the results of a risk assessment.

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

TSCA : On TSCA Inventory

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

AUSTR : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

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

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

IECSC : q (quantity restricted)

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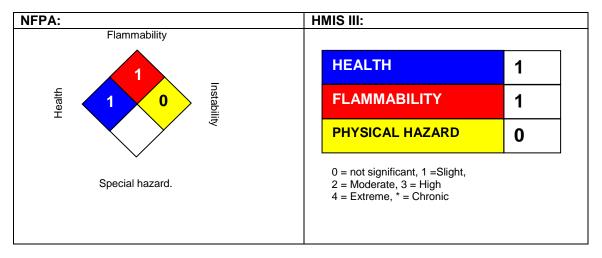
#### **Inventories**

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

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

### **Further information**

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### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements referred to under sections 2 and 3.

H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.

## **Further information**

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.

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 (1-800-825-8654).

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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

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System