

|                                                                                                                                                      |  |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|
|                                                                      |  | Page: 1                   |
| <b>SAFETY DATA SHEET</b>                                                                                                                             |  | Revision Date: 09/22/2017 |
|                                                                                                                                                      |  | Print Date: 1/17/2018     |
|                                                                                                                                                      |  | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various countries<br>882228 |  | Version: 1.0              |

Napa Full synthetic motor oil  
5W-30

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

Recommended use : Motor Oil

|                                                                                                                                                                                          |                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Details of the supplier of the safety data sheet</b><br>Valvoline LLC<br>100 Valvoline Way<br>Lexington, KY 40509<br>United States of America (USA)<br>1-800-TEAMVAL (1-800-8326-825) | <b>Emergency telephone number</b><br>1-800-VALVOLINE (1-800-825-8654)<br><br><b>Regulatory Information Number</b><br>1-800-TEAMVAL (1-800-8326-825)<br><br><b>Product Information</b><br>1-800-TEAMVAL (1-800-8326-825) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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 (%) |
|---------------|---------|----------------|-------------------|
|---------------|---------|----------------|-------------------|

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various countries  
882228

|                                                           |            |                   |        |
|-----------------------------------------------------------|------------|-------------------|--------|
| DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC | 64742-65-0 | Asp. Tox. 1; H304 | 5.9299 |
| CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM)       | 64742-70-7 | Asp. Tox. 1; H304 | 1.0699 |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PA         | 64741-89-5 | Asp. Tox. 1; H304 | 1.0699 |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic    | 64742-54-7 | Asp. Tox. 1; H304 | 1.0699 |

**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.

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

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 (CO<sub>2</sub>)

Dry chemical

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  
Aldehydes  
Sulphur oxides

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 : 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 containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust)



# SAFETY DATA SHEET

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries  
 882228

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 : 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<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-----------------------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| CATALYTIC DE WAXED<br>HEAVY PARAFFINIC OIL<br>(PETROLEUM) | 64742-70-7 | TWA                              | 5 mg/m3<br>Mist                                   | OSHA Z-1  |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | OSHA P0   |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | NIOSH REL |
|                                                           |            | ST                               | 10 mg/m3<br>Mist                                  | NIOSH REL |
|                                                           |            | PEL                              | 5 mg/m3<br>particulate                            | CAL PEL   |
| DISTILLATES (PETROLEUM),<br>SOLVENT-REFINED LIGHT<br>PA   | 64741-89-5 | TWA                              | 5 mg/m3<br>Mist                                   | OSHA Z-1  |
|                                                           |            | TWA                              | 5 mg/m3<br>Inhalable fraction                     | ACGIH     |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | OSHA P0   |
|                                                           |            | TWA                              | 5 mg/m3<br>Mist                                   | NIOSH REL |
|                                                           |            | ST                               | 10 mg/m3<br>Mist                                  | NIOSH REL |
|                                                           |            | PEL                              | 5 mg/m3<br>particulate                            | CAL PEL   |
| Distillates (Petroleum).                                  | 64742-54-7 | TWA                              | 5 ma/m3                                           | OSHA 7-1  |

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

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Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

|                               |  |     |                               |           |
|-------------------------------|--|-----|-------------------------------|-----------|
| Hydrotreated Heavy Paraffinic |  |     | Mist                          |           |
|                               |  | TWA | 5 mg/m3<br>Inhalable fraction | ACGIH     |
|                               |  | TWA | 5 mg/m3<br>Mist               | OSHA P0   |
|                               |  | TWA | 5 mg/m3<br>Mist               | NIOSH REL |
|                               |  | ST  | 10 mg/m3<br>Mist              | NIOSH REL |
|                               |  | PEL | 5 mg/m3<br>particulate        | CAL PEL   |

**Hazardous components without workplace control parameters**

| Components                                                      | CAS-No.    |
|-----------------------------------------------------------------|------------|
| DISTILLATES (PETROLEUM),<br>SOLVENT-DEWAXED HEAVY<br>PARAFFINIC | 64742-65-0 |

**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  
Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures** : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state** : liquid

**Odour** : No data available

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

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 : > 390 °F / > 199 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.850 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 : 55 mm2/s (40 °C)

Oxidizing properties : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Aldehydes  
carbon dioxide and carbon monoxide  
Hydrocarbons  
Sulphur oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity**

Not classified based on available information.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

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

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

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

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

Acute dermal toxicity : LD50 (Rabbit): > 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.

DISTILLATES (PETROLEUM) SOLVENT-REFINED LIGHT PA:

|                                                                                                                                                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                      | Page: 8                   |
| <b>SAFETY DATA SHEET</b>                                                                                                                             | Revision Date: 09/22/2017 |
|                                                                                                                                                      | Print Date: 1/17/2018     |
|                                                                                                                                                      | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various countries<br>882228 | Version: 1.0              |

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

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:  
Result: Slight, transient irritation

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):  
Result: Slight, transient irritation

DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PA:  
Result: Slight, transient irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:  
Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:  
Result: Slight, transient irritation

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):  
Result: Slight, transient irritation

DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PA:  
Result: Slight, transient irritation

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

**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**



|                                                                                                                                                            |  |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|
|                                                                            |  | Page: 9                   |
| <b>SAFETY DATA SHEET</b>                                                                                                                                   |  | Revision Date: 09/22/2017 |
|                                                                                                                                                            |  | Print Date: 1/17/2018     |
|                                                                                                                                                            |  | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30<br>Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various<br>countries<br>882228 |  | Version: 1.0              |

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.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

May be fatal if swallowed and enters airways.

CATALYTIC DE WAXED HEAVY PARAFFINIC OIL (PETROLEUM):

May be fatal if swallowed and enters airways.

DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PA:

May be fatal if swallowed and enters airways.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

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 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.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information

|                                                                                                                                                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                      | Page: 10                  |
| <b>SAFETY DATA SHEET</b>                                                                                                                             | Revision Date: 09/22/2017 |
|                                                                                                                                                      | Print Date: 1/17/2018     |
|                                                                                                                                                      | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various countries<br>882228 | Version: 1.0              |

**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 (Fish): 10 mg/l

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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

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## 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.

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## SECTION 14. TRANSPORT INFORMATION

**International transport regulations**

**REGULATION**

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD<br>CLASS | SUBSIDIARY<br>HAZARDS | PACKING<br>GROUP | MARINE<br>POLLUTANT /<br>LTD. QTY. |
|-----------|----------------------|------------------|-----------------------|------------------|------------------------------------|
|-----------|----------------------|------------------|-----------------------|------------------|------------------------------------|

**U.S. DOT - ROAD**

Not dangerous goods

**CFR RAIL\_C**

Not dangerous goods

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

Not dangerous goods

**TDG ROAD\_C**

Not dangerous goods

**TDG RAIL\_C**

Not dangerous goods

**TDG INWT\_C**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MX\_DG**

Not dangerous goods

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

**SAFETY DATA SHEET**

Revision Date: 09/22/2017

Print Date: 1/17/2018

SDS Number: 000000273516

Version: 1.0

Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30  
Motor Oil  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
882228

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<br>(lbs) | Calculated product RQ<br>(lbs) |
|-----------------|----------|-----------------------|--------------------------------|
| ETHYLENEDIAMINE | 107-15-3 | 5000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

| Components      | CAS-No.  | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-----------------|----------|-----------------------|--------------------------------|
| ETHYLENEDIAMINE | 107-15-3 | 5000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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**

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:**

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

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

ENCS : Not in compliance with the inventory

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

PICCS : Not in compliance with the inventory

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

TSCA : On TSCA Inventory

**Inventories**

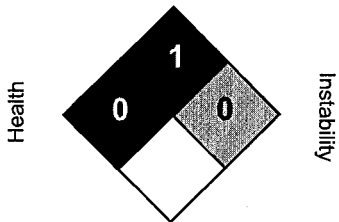
|                                                                                                                                                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                                                      | Page: 13                  |
| <b>SAFETY DATA SHEET</b>                                                                                                                             | Revision Date: 09/22/2017 |
|                                                                                                                                                      | Print Date: 1/17/2018     |
|                                                                                                                                                      | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various countries<br>882228 | Version: 1.0              |

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

Revision Date: 09/22/2017

| NFPA:                                                                                                                                                                                                 | HMIS III:                                                                                                                                                                                                                                              |        |   |              |   |                 |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|--------------|---|-----------------|---|
| <div style="text-align: center;"> <p>Flammability</p>  <p>Health      Instability</p> <p>Special hazard.</p> </div> | <table border="1"> <tr> <td>HEALTH</td><td>0</td></tr> <tr> <td>FLAMMABILITY</td><td>1</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> <p>0 = not significant; 1 = Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | HEALTH | 0 | FLAMMABILITY | 1 | PHYSICAL HAZARD | 0 |
| HEALTH                                                                                                                                                                                                | 0                                                                                                                                                                                                                                                      |        |   |              |   |                 |   |
| FLAMMABILITY                                                                                                                                                                                          | 1                                                                                                                                                                                                                                                      |        |   |              |   |                 |   |
| PHYSICAL HAZARD                                                                                                                                                                                       | 0                                                                                                                                                                                                                                                      |        |   |              |   |                 |   |

**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.

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).

|                                                                                                                                                      |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  <b>Valvoline</b>                                                    | Page: 14                  |
| <b>SAFETY DATA SHEET</b>                                                                                                                             | Revision Date: 09/22/2017 |
|                                                                                                                                                      | Print Date: 1/17/2018     |
|                                                                                                                                                      | SDS Number: 000000273516  |
| Valvoline™ FULL SYNTHETIC MODERN ENGINE SAE 5W-30 Motor Oil<br>™ Trademark, Valvoline or its subsidiaries, registered in various countries<br>882228 | Version: 1.0              |

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