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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ DAILY PROTECTION SAE 5W-30 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 (1-800-8326-825) SDS@valvoline.com	Emergency telephone number +1-800-VALVOLINE (+1-800-825-8654) Regulatory Information Number 1-800-TEAMVAL (1-800-8326-825) Product Information 1-800-TEAMVAL (1-800-8326-825)
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SECTION 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.


SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components


Chemical name	CAS-No.	Classification	Concentration (%)
Lubricating oils (petroleum), hydrotreated	64742-58-1	Not a hazardous substance or mixture.	>= 70.00 - < 90.00
PETROLEUM DISTILLATES	64742-54-7	Asp. Tox. 1; H304	>= 1.00 - < 10.00
Reaction products of Benzeneamine, N-phenyl- with	36878-20-3	3; H316	>= 1.00 - < 10.00

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nonene (branched)		Aquatic Chronic 4; H413	
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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 : 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)
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.
- Notes to physician : No hazards which require special first aid measures.

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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
- 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 (NO_x)
- Specific extinguishing methods : Standard procedure for chemical fires.
- Product is compatible with standard fire-fighting agents.
- 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.
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.

SECTION 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PETROLEUM DISTILLATES	64742-54-7	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		TWA (Mist, inhalable)	5 mg/m3 Mist, inhalable	CR OEL
		STEL (Mist)	10 mg/m3 Mist	CR 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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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 : > 199 °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 : 0.876 (15.6 °C)

Density : 0.8599 g/cm³ (15.6 °C)

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 : 63 mm²/s (40 °C)

Oxidizing properties : No data available

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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

Acute toxicity

Not classified based on available information.

Components:

Lubricating oils (petroleum), hydrotreated:

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by ingestion under GHS.
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.


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
- 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

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Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Lubricating oils (petroleum), hydrotreated:

Result: **No skin irritation**

Result: **Repeated exposure may cause skin dryness or cracking.**

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:

Remarks: Unlikely to cause eye irritation or injury.

Components:

Lubricating oils (petroleum), hydrotreated:

Result: **Slight, transient irritation**

PETROLEUM DISTILLATES:

Result: **No eye irritation**

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

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:

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

Species: **Guinea pig**

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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:

PETROLEUM DISTILLATES:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Lubricating oils (petroleum), hydrotreated:

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Brine shrimp (Artemia salina)): > 22,500 mg/l**
Exposure time: **48 h**

Ecotoxicology Assessment

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Chronic aquatic toxicity : No toxicity at the limit of solubility**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
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:****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

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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

Contaminated packaging : Empty remaining contents.

SECTION 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.

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SECTION 15. REGULATORY INFORMATION

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

Chemical Control Order (CCO)	: Not applicable
Priority Chemical List (PCL)	: Not applicable
Hazardous Substance Act B.E. 2535	: Not applicable
Emergency Decree on Controlling the Use of Volatile Substances B.E. 2533	: Not applicable

Other international regulations

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
KECI	: On the inventory, or in compliance with the inventory
IECSC	: q (quantity restricted)
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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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 (1-
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800-VALVOLINE).

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).
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

CEATOX

Assistance Center of the Institute of Toxicology
Children's Hospital Clinic, Faculty of Medicine
University of São Paulo.
BR OEL : Occupational Exposure Limit (Brazil)
UY OEL : Occupational Exposure Limit (Uruguay)

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PY OEL : Occupational Exposure Limit (Paraguay)