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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**  
Trade name : Valvoline Professional Series™ Oil Additive  
™ Trademark, Valvoline or its subsidiaries, registered in various countries

**Relevant identified uses of the substance or mixture and uses advised against**  
Recommended use : Additive

<b>Details of the supplier of the safety data sheet</b> Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)  SDS@valvoline.com	<b>Emergency telephone number</b> +1-800-VALVOLINE (+1-800-825-8654)  <b>Regulatory Information Number</b> 1-800-TEAMVAL (1-800-832-6825)  <b>Product Information</b> 1-800-TEAMVAL (1-800-832-6825)
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**  
Short-term (acute) aquatic hazard : Category 3  
Long-term (chronic) aquatic hazard : Category 3

**GHS label elements**  
Hazard pictograms : None  
Signal word : None  
Hazard statements : H412 Harmful to aquatic life with long lasting effects.  
Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**  
No information available.

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

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
PETROLEUM DISTILLATES	64742-54-7	Asp. Tox. 1; H304	>= 50.00 - < 70.00
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	>= 1.00 - < 10.00
Mineral Oil		Asp. Tox. 1; H304	>= 1.00 - < 10.00
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	36878-20-3	Skin Corr/Irr 3; H316  Aquatic Chronic 4; H413	>= 2.50 - < 10.00
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	Skin Sens. 1B; H317	>= 1.00 - < 4.60
PETROLEUM DISTILLATES		Not a hazardous substance or mixture.	>= 1.00 - < 10.00
PETROLEUM DISTILLATES	74869-22-0	Not a dangerous substance according to GHS.	>= 1.00 - < 10.00
Molybdic acid, compounds with di-tridecylamine (1:1), branched		Skin Corr/Irr 2; H315  Eye Corr/Irr 1; H318  Aquatic Acute 1; H400  Aquatic Chronic 1; H410	>= 0.25 - < 1.00



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AMINE	122-39-4	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 2A; H319 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.10 - < 0.25
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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 : No symptoms known or expected.

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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 (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  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
  
Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## 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 product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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.

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## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.
- Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 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
Lubricating oils (petroleum), hydrotreated	64742-58-1	L-8/40	0.2 mg/m3	VE OEL
		TWA	5 mg/m3	CR OEL
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
		L-8/40	0.2 mg/m3	VE OEL
		TWA	5 mg/m3	CR OEL
PETROLEUM DISTILLATES		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



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		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**

- Appearance : 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

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- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : 6 %(V)  
GLP: Calculated Explosive Limit
- Lower explosion limit / Lower flammability limit : 1 %(V)  
GLP: Calculated Explosive Limit
- Vapour pressure : 0.06 hPa (20 °C)  
Calculated Vapor Pressure
- Relative vapour density : No data available
- Relative density : No data available
- Density : 0.872 g/cm3
- Solubility(ies)  
     Water solubility : No data available  
     Solubility in other solvents : No data available
- Partition coefficient: n-octanol/water : No data available
- Decomposition temperature : No data available
- Viscosity  
     Viscosity, dynamic : No data available  
     Viscosity, kinematic : 61 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 : halogens  
Strong oxidizing agents
- Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
 Method: Calculation method

**Components:**

**PETROLEUM DISTILLATES:**

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

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

**PETROLEUM DISTILLATES:**

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

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

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

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

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

**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat): > 16,000 mg/kg  
 Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist



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

Acute dermal toxicity : **LD50 (Rabbit): > 5,000 mg/kg**  
Remarks: **Information given is based on data obtained from similar substances.**

**PETROLEUM DISTILLATES:**

Acute oral toxicity : **LD50 (Rat): > 10 g/kg**

**Molybdic acid, compounds with di-tridecylamine (1:1), branched:**

Acute oral toxicity : **LD50 (Rat): > 2,500 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 (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.**

**AMINE:**

Acute oral toxicity : **LD50 (Guinea pig): 300 mg/kg**

Acute inhalation toxicity : **Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.**

Acute dermal toxicity : **Assessment: The component/mixture is classified as acute dermal toxicity, category 3.**

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

**PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

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

Species: **Rabbit**

Result: **Mild skin irritation**

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

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Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species: **Rabbit**

Result: **No skin irritation**

PETROLEUM DISTILLATES:

Result: **Slight, transient irritation**

PETROLEUM DISTILLATES:

Result: **Slight, transient irritation**

Molybdic acid, compounds with di-tridecylamine (1:1), branched:

Species: **Rabbit**

Result: **Irritating to skin.**

AMINE:

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:**

PETROLEUM DISTILLATES:

Result: **No eye 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.**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species: **Rabbit**

Result: **Slight, transient irritation**

PETROLEUM DISTILLATES:

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Result: **Slight, transient irritation**

**PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

Molybdic acid, compounds with di-tridecylamine (1:1), branched:

Result: **Corrosive**

**AMINE:**

Result: **Irritating to eyes.**

**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**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Assessment: **The product is a skin sensitiser, sub-category 1B.**

**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**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

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.

**Components:**

PETROLEUM DISTILLATES:



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**Carcinogenicity - Assessment** : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

**PETROLEUM DISTILLATES:**

**Carcinogenicity - Assessment** : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

**PETROLEUM DISTILLATES:**

**Carcinogenicity - Assessment** : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

**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.

**Components:**

**AMINE:**

Exposure routes: **Ingestion**  
Target Organs: **Kidney, Liver**  
Assessment: **May cause damage to organs through prolonged or repeated exposure.**

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**PETROLEUM DISTILLATES:**

**May be fatal if swallowed and enters airways.**

**PETROLEUM DISTILLATES:**

**No aspiration toxicity classification**

**Mineral Oil:**

**May be fatal if swallowed and enters airways.**

**PETROLEUM DISTILLATES:**

**No aspiration toxicity classification**

**Further information**

**Product:**

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Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**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

**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

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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**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Toxicity to fish : **LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l**  
 Exposure time: **96 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 203**  
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 1,000 mg/l**  
 Exposure time: **48 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 202**  
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to algae : **NOEC (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l**  
 End point: **Growth inhibition**  
 Exposure time: **96 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Remarks: **Information given is based on data obtained from similar substances.**

Molybdic acid, compounds with di-tridecylamine (1:1), branched:

Toxicity to fish : **LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 mg/l**  
 Exposure time: **96 h**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0.13 mg/l**  
 Exposure time: **48 h**

Toxicity to algae : **EC50 (Selenastrum capricornutum (green algae)): > 1 mg/l**  
 Exposure time: **72 h**

M-Factor (Short-term (acute) aquatic hazard) : **1**

M-Factor (Long-term (chronic) aquatic hazard) : **1**

AMINE:

Toxicity to daphnia and other : **EC50 (Daphnia magna (Water flea)): 0.27 - 0.36 mg/l**

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aquatic invertebrates	Exposure time: 48 h Test Type: semi-static test
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): Estimated 2.17 mg/l End point: Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): Estimated 0.37 mg/l End point: Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Short-term (acute) aquatic hazard)	: 1
	1
	1
	1
M-Factor (Long-term (chronic) aquatic hazard)	: 1
	1
	1
	1

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
------------------	--

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 8 % Exposure time: 28 d
------------------	--

Molybdic acid, compounds with di-tridecylamine (1:1), branched:

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 26 % Exposure time: 28 d
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**AMINE:**

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **26 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301D**

No data available

**Bioaccumulative potential**

**Components:**

**PETROLEUM DISTILLATES:**

Partition coefficient: n-octanol/water : log Pow: **Expected > 7**

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

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

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Partition coefficient: n-octanol/water : log Pow: **10.9**

**AMINE:**

Bioaccumulation : Species: **Pimephales promelas (fathead minnow)**  
 Bioconcentration factor (BCF): **30**  
 Exposure time: **32 d**  
 Concentration: **0.0437 mg/l**  
 Method: **Flow through**

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**Components:**


**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.

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.



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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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

### 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

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

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


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

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

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

TSCA : On TSCA Inventory

### Inventories

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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


H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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 (1-800-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

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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)

PY OEL : Occupational Exposure Limit (Paraguay)