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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Parts Plus® SAE 15W-40 Motor Oil

<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

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

### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	>= 70.00 - < 90.00
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	36878-20-3	Skin Corr/Irr 3; H316  Aquatic Chronic 4; H413	>= 1.00 - < 10.00

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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3	Acute Tox. 5; H303 Skin Corr/Irr 2; H315 Eye Corr/Irr 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 1.00 - < 10.00
INORGANIC ACID SALT	84605-29-8	Acute Tox. 5; H303 Skin Corr/Irr 2; H315 Eye Corr/Irr 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 1.00 - < 10.00
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	Skin Sens. 1B; H317	>= 0.10 - < 1.00
phenol, (tetrapropenyl) derivatives	74499-35-7	Skin Corr/Irr 1C; H314 Eye Corr/Irr 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.10 - < 1.00
BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS		Skin Sens. 1B; H317	>= 0.10 - < 1.00
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	>= 70.00 - < 90.00
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3	Acute Tox. 5; H303 Skin Corr/Irr 2; H315	>= 0.00 - < 1.50



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		Eye Corr/Irr 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	
phenol, (tetrapropenyl) derivatives	74499-35-7	Skin Corr/Irr 1C; H314 Eye Corr/Irr 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.00 - < 0.15

**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.

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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 (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
- Nitrogen oxides (NO<sub>x</sub>)
- Sulphur oxides
- hydrogen sulfide
- mercaptans
- zinc oxide
- Oxides of phosphorus

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Standard procedure for chemical fires.

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 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**

**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
		L-8/40	0.2 mg/m3	VE OEL
		TWA	5 mg/m3	CR OEL
PETROLEUM DISTILLATES	64742-55-8	CMP (Mist)	5 mg/m3	AR OEL

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			Mist	
		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	5 mg/m3	CR OEL
DISTILLATES (PETROLEUM)	64742-65-0	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	5 mg/m3	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

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Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : amber

Odour : hydrocarbon-like

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

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 6 %(V)  
Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 1 %(V)  
Calculated Explosive Limit

Vapour pressure : 0.0133333 hPa (21.11 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.880 g/cm<sup>3</sup> (15.6 °C)

Solubility(ies)  
Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

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Decomposition temperature : No data available

## Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 112 mm<sup>2</sup>/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 : excessive heat

Incompatible materials : Acids  
Strong oxidizing agentsHazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons  
hydrogen sulfide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
zinc oxide  
mercaptans**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**Components:****PETROLEUM DISTILLATES:**


Acute oral toxicity : LD50 (Rat): &gt; 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): &gt; 5 g/kg

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

Acute oral toxicity : LD50 (Rat): &gt; 5,000 mg/kg



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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.

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts:  
 Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
 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.

**INORGANIC ACID SALT:**

Acute oral toxicity : LD50 (Rat): 3,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**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  
 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.

**Components:**

PETROLEUM DISTILLATES:

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

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Acute oral toxicity : LD50 (Rat): 2,900 mg/kg  
 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.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

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.

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Result: Irritating to skin.  
 Remarks: Information given is based on data obtained from similar substances.


INORGANIC ACID SALT:  
 Species: Rabbit  
 Result: Irritating to skin.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:  
 Species: Rabbit  
 Result: No skin irritation

phenol, (tetrapropenyl) derivatives:  
 Result: Corrosive to skin

**Components:**

PETROLEUM DISTILLATES:  
 Result: Slight, transient irritation

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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Result: Irritating to skin.  
 Remarks: Information given is based on data obtained from similar substances.

phenol, (tetrapropenyl) derivatives:  
 Result: Corrosive to skin

**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

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.


Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Result: Corrosive  
 Remarks: Information given is based on data obtained from similar substances.

INORGANIC ACID SALT:  
 Species: Rabbit  
 Result: Corrosive

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:  
 Species: Rabbit  
 Result: Slight, transient irritation

phenol, (tetrapropenyl) derivatives:  
 Result: Corrosive

**Components:**  
 PETROLEUM DISTILLATES:  
 Result: No eye irritation

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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Result: Corrosive  
 Remarks: Information given is based on data obtained from similar substances.

phenol, (tetrapropenyl) derivatives:  
 Result: Corrosive

**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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Test Type: Buehler Test  
 Species: Guinea pig  
 Assessment: Did not cause sensitisation on laboratory animals.

INORGANIC ACID SALT:  
 Test Type: Buehler Test  
 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.

BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:  
 Assessment: The product is a skin sensitiser, sub-category 1B.

**Components:**


Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:  
 Test Type: Buehler Test  
 Species: Guinea pig  
 Assessment: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

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

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Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Result: negative

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:  
 Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were not observed with in vivo test.

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Test species: Mouse  
 Cell type: peripheral blood cells  
 Result: negative

**INORGANIC ACID SALT:**

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

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were not observed with in vivo test.

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Test species: Mouse  
 Cell type: peripheral blood cells  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:**


PETROLEUM DISTILLATES:

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

**Components:**

PETROLEUM DISTILLATES:

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

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**Reproductive toxicity**

Not classified based on available information.

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Effects on fertility : Species: Rat  
 Application Route: Oral  
 Dose: 100 mg/kg bw/day  
 Symptoms: No effects on reproduction parameters

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 Developmental Toxicity: No observed adverse effect level F1:  
 100 mg/kg body weight

phenol, (tetrapropenyl) derivatives:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

**Components:**

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:

Effects on fertility : Species: Rat  
 Application Route: Oral  
 Dose: 100 mg/kg bw/day  
 Symptoms: No effects on reproduction parameters

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 Developmental Toxicity: No observed adverse effect level F1:  
 100 mg/kg body weight

phenol, (tetrapropenyl) derivatives:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

**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

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**Components:**

PETROLEUM DISTILLATES:

No aspiration toxicity classification

**Components:**

PETROLEUM DISTILLATES:

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10.25 %

**Components:**

PETROLEUM DISTILLATES:

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l  
aquatic invertebrates Exposure time: 48 hToxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 hToxicity to fish (Chronic : NOEC (Fish): 10 mg/l  
toxicity)Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l  
aquatic invertebrates  
(Chronic toxicity)

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 : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Test substance: WAF

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts:  
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
 Exposure time: 96 h  
 Remarks: Information given is based on data obtained from similar substances.

**INORGANIC ACID SALT:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Test substance: WAF  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 23 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): 24 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 201


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.4 mg/l  
 Exposure time: 28 d  
 End point: Reproduction Test  
 Test substance: WAF  
 Method: OECD Test Guideline 211

**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



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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.

phenol, (tetrapropenyl) derivatives:  
 Ecotoxicology Assessment  
 Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:  
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
 Exposure time: 96 h  
 Remarks: Information given is based on data obtained from similar substances.

phenol, (tetrapropenyl) derivatives:  
 Ecotoxicology Assessment  
 Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**  
**Components:**

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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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Biodegradability : Result: Not readily biodegradable.  
 Remarks: Information given is based on data obtained from similar substances.

**INORGANIC ACID SALT:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: 1.5 %  
 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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Biodegradability : Result: Not readily biodegradable.  
 Remarks: Information given is based on data obtained from similar substances.

No data available

**Bioaccumulative potential**

**Components:**

**PETROLEUM DISTILLATES:**

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

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

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

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Bioaccumulation : Bioconcentration factor (BCF): 3  
 Remarks: Information given is based on data obtained from similar substances.

**INORGANIC ACID SALT:**


Partition coefficient: n- : log Pow: 0.56  
 octanol/water

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

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

phenol, (tetrapropenyl) derivatives:

Partition coefficient: n- : log Pow: 7.1

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octanol/water

**PETROLEUM DISTILLATES:**

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

**Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoctyl) esters, zinc salts:**

Bioaccumulation : Bioconcentration factor (BCF): 3  
Remarks: Information given is based on data obtained from similar substances.

**phenol, (tetrapropenyl) derivatives:**

Partition coefficient: n- : log Pow: 7.1  
octanol/water

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological : No data available  
information

**Components:**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Contaminated packaging : Empty remaining contents.

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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 : Not 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 : Contact your sales representative for additional information.
- TCSI : 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

- H303 May be harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H401 Toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

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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  
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

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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)