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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**  
Trade name : Valvoline™ Full Synthetic DEXRON VI Automatic Transmission Fluid  
™ Trademark, Valvoline or its subsidiaries, registered in various countries

<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	64742-55-8	Not a hazardous substance or mixture.	>= 30.00 - < 50.00
PETROLEUM DISTILLATES		Not a hazardous substance or mixture.	>= 1.00 - < 10.00
METHACRYLATE COPOLYMER		Eye Corr/Irr 2A; H319	>= 1.00 - < 10.00
PETROLEUM DISTILLATES	72623-86-0	Asp. Tox. 1; H304 Not a hazardous substance or mixture.	>= 1.00 - < 10.00
PETROLEUM DISTILLATES	64742-55-8	Asp. Tox. 1; H304	>= 1.00 - < 10.00
3-(decyloxy)tetrahydrothiophene 1,1-dioxide	18760-44-6	Acute Tox. 5; H313 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 1.00 - < 2.50
FATTY ACID DERIVATIVE	61791-44-4	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr/Irr 1C; H314 Eye Corr/Irr 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.10 - < 0.25

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DIMETHYLSTEARYLAMINE	124-28-7	Acute Tox. 4; H302 Skin Corr/Irr 1; H314 Eye Corr/Irr 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.10 - < 0.25
IMIDAZOLINE	95-38-5	Acute Tox. 4; H302 Skin Corr/Irr 1C; H314 Eye Corr/Irr 1; H318 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.025 - < 0.10

**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.

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- 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.
- 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
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.  
  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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.

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- 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.

**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.
- 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
MINERAL OIL		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

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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
		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
PETROLEUM DISTILLATES	64742-55-8	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.

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- 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
- Colour : red
- 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 : > 180 °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)  
GLP: Calculated Explosive Limit
- Lower explosion limit / Lower flammability limit : 1 %(V)  
GLP: Calculated Explosive Limit
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : No data available
- Density : 0.849 g/cm<sup>3</sup> (15.56 °C)
- Solubility(ies)

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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 : 29.5 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 : Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

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

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

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

Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist



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

Remarks: **No mortality observed at this dose.**

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

**PETROLEUM DISTILLATES:**

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

**3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**

Acute oral toxicity : **LD50 (Rat): > 10,000 mg/kg**

Acute dermal toxicity : **LD50 (Rabbit): 4,000 - < 8,000 mg/kg**

**FATTY ACID DERIVATIVE:**

Acute oral toxicity :  
Assessment: **The component/mixture is classified as acute oral toxicity, category 4.**

**DIMETHYLSTEARYLAMINE:**

Acute oral toxicity : **LD50 (Rat): 624 mg/kg**

Acute dermal toxicity : Remarks: **see user defined free text**

**IMIDAZOLINE:**

Acute oral toxicity : **LD50 (Rat): ca. 1,265 mg/kg**

**Skin corrosion/irritation**

Not classified based on available information.

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

Species: **Rabbit**  
Result: **No skin irritation**

**PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

**METHACRYLATE COPOLYMER:**

Result: **No skin irritation**



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**PETROLEUM DISTILLATES:**

Result: **No skin irritation**

**PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

**3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**

Result: **No skin irritation**

**FATTY ACID DERIVATIVE:**

Result: **Corrosive after 1 to 4 hours of exposure**

**DIMETHYLSTEARYLAMINE:**

Species: **Rabbit**

Result: **Corrosive to skin**

**IMIDAZOLINE:**

Species: **Rabbit**

Method: **OECD Test Guideline 404**

Result: **Corrosive after 1 to 4 hours of exposure**

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

**PETROLEUM DISTILLATES:**

Species: **Rabbit**

Result: **No eye irritation**

**PETROLEUM DISTILLATES:**

Result: **Slight, transient irritation**

**METHACRYLATE COPOLYMER:**

Result: **Irritating to eyes.**

**PETROLEUM DISTILLATES:**

Result: **No eye irritation**

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**PETROLEUM DISTILLATES:**Result: **Slight, transient irritation****3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**Result: **No eye irritation****FATTY ACID DERIVATIVE:**Result: **Corrosive****DIMETHYLSTEARYLAMINE:**Species: **Rabbit**Result: **Corrosive****IMIDAZOLINE:**Result: **Corrosive****Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:****PETROLEUM DISTILLATES:**Test Type: **Buehler Test**Species: **Guinea pig**Assessment: **Does not cause skin sensitisation.****FATTY ACID DERIVATIVE:**Assessment: **Does not cause skin sensitisation.****IMIDAZOLINE:**Species: **Guinea pig**Assessment: **Does not cause skin sensitisation.**Method: **OECD Test Guideline 406****Germ cell mutagenicity**

Not classified based on available information.

**Components:****3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**Genotoxicity in vitro : Test Type: **Ames test**  
Result: **negative**

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: Test Type: **Chromosome aberration test in vitro**  
Result: **negative**

**DIMETHYLSTEARYLAMINE:**

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:**

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:****IMIDAZOLINE:**

Exposure routes: **Ingestion**  
Target Organs: **Gastrointestinal tract, thymus gland**  
Assessment: **May cause damage to organs through prolonged or repeated exposure.**

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

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**Components:**

PETROLEUM DISTILLATES:

May be fatal if swallowed and enters airways.

PETROLEUM DISTILLATES:

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

PETROLEUM DISTILLATES:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 203  
 Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: WAF  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l  
 Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia (water flea)): 10 mg/l  
 Exposure time: 21 d  
 Test substance: WAF  
 Method: OECD Test Guideline 211

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**3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 4.2 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 4.6 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 3.5 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test

**FATTY ACID DERIVATIVE:**

Toxicity to fish	: LC50 (Fish): < 1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): < 1 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (algae): < 0.01 mg/l Exposure time: 72 h
M-Factor (Short-term (acute) aquatic hazard)	: 10
M-Factor (Long-term (chronic) aquatic hazard)	: 1

**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.

**DIMETHYLSTEARYLAMINE:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.18 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.51 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: NOEC (Desmodesmus subspicatus (green algae)): 0.00517 mg/l End point: Growth inhibition

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Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

ErC50 (Desmodesmus subspicatus (green algae)): 0.00141 mg/l

End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 0.036 mg/l  
 Exposure time: 21 d  
 End point: Reproduction Test  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211  
 Remarks: Information given is based on data obtained from similar substances.

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

**IMIDAZOLINE:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.3 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.163 mg/l  
 Exposure time: 48 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.03 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

M-Factor (Short-term (acute) aquatic hazard) : 10

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

No data available

**Persistence and degradability**

**Components:**

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**PETROLEUM DISTILLATES:**

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **2 - 4 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

**3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**

Biodegradability : Biodegradation: **9.6 %**  
 Exposure time: **28 d**

**FATTY ACID DERIVATIVE:**

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **60 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301D**

**DIMETHYLSTEARYLAMINE:**

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **68 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301D**

**IMIDAZOLINE:**

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **1 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

No data available

**Bioaccumulative potential**

**Components:**

**3-(decyloxy)tetrahydrothiophene 1,1-dioxide:**

Partition coefficient: n-octanol/water : log Pow: **1.19**

**DIMETHYLSTEARYLAMINE:**

Partition coefficient: n-octanol/water : log Pow: **Calculated 5.1**

**IMIDAZOLINE:**

Partition coefficient: n-octanol/water : log Pow: **8**

No data available

**Mobility in soil**

**Components:**

No data available


**Other adverse effects**

No data available

**Product:**

Additional ecological : An environmental hazard cannot be excluded in the event of



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information

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.

**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

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

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)

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## SECTION 16. OTHER INFORMATION

### Further information

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### Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.

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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.


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

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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)