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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_RW

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Valvoline™ ANTI-WEAR 68 HVI
HYDRAULIC OIL

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

Recommended use : Hydraulic oil

<p>1.3 Details of the supplier of the safety data sheet Ellis Enterprises B.V., an affiliate of Valvoline Wieldrechtseweg 39 3316 BG Dordrecht Netherlands +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person</p> <p>SDS@valvoline.com</p>	<p>1.4 Emergency telephone number 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112</p> <p>Product Information +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person</p>
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.


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Additional Labelling:

EUH208 Contains Methyl methacrylate, Triphenyl phosphite. May produce an allergic reaction.

2.3 Other hazards
Additional advice

No information available.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 01-2119487077-29-xxxx	Asp. Tox.1; H304	>= 1,00 - < 2,50
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8 224-235-5	Eye Dam.1; H318 Aquatic Chronic2; H411	>= 0,50 - < 1,00
2,6-di-tert-butylphenol	128-39-2 204-884-0	Skin Irrit.2; H315 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,25 - < 0,50
Methyl methacrylate	80-62-6 201-297-1 01-2119452498-28-xxxx	Flam. Liq.2; H225 Skin Irrit.2; H315 Skin Sens.1; H317 STOT SE3; H335	>= 0,10 - < 0,50
Triphenyl phosphite	101-02-0 202-908-4	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1A; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,00 - < 0,10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures


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4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
- Risks : 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.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures


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5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO₂)
 Dry chemical

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
 Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
 Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

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


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Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage
7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

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

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
		STEL	100 ppm	2009/161/EU
		STEL	100 ppm 416 mg/m ³	GB EH40
		TWA	50 ppm 208 mg/m ³	GB EH40


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8.2 Exposure controls
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

- 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
- Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties
9.1 Information on basic 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
- Upper explosion limit : No data available
- Lower explosion limit : No data available


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Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,856 g/cm ³
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	:	> 20,5 mm ² /s (40 °C)
Oxidizing properties	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity
10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents


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10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Hydrocarbons

SECTION 11: Toxicological information
11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Components:
PHOSPHORODITHIOIC ACID:

Acute oral toxicity : LD50 (Rat): 3.100 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg
Method: OECD Test Guideline 402

Components:
2,6-DI-TERT-BUTYLPHENOL:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Components:
METHYLMETHACRYLATE:

Acute oral toxicity : LD50 (Rat): 7.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29,8 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Components:
PHOSPHOROUS ACID, TRIPHENYL ESTER:

Acute oral toxicity : LD50 (Rat, male): 1,59 g/kg

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Method: **OECD Test Guideline 401**

Acute inhalation toxicity : **LC50 (Rat): > 6,7 mg/l**
Exposure time: **1 h**
Test atmosphere: **dust/mist**
Method: **OECD Test Guideline 403**
Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**

Acute dermal toxicity : **LD50 (Rabbit): > 2 - < 5 g/kg**
Method: **OECD Test Guideline 402**

Skin corrosion/irritation

Not classified based on available information.

Components:**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**Result: **Slight, transient irritation****PHOSPHORODITHIOIC ACID:**Result: **Slight, transient irritation****2,6-DI-TERT-BUTYLPHENOL:**

Species: **Rabbit**
Method: **OECD Test Guideline 404**
Result: **Irritating to skin.**

METHYLMETHACRYLATE:Result: **Irritating to skin.****PHOSPHOROUS ACID, TRIPHENYL ESTER:**

Species: **Guinea pig**
Result: **Skin irritation**

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**Result: **Slight, transient irritation****PHOSPHORODITHIOIC ACID:**Result: **Corrosive****2,6-DI-TERT-BUTYLPHENOL:**

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Species: **Rabbit**
Method: **OECD Test Guideline 405**
Result: **Slight, transient irritation**

METHYLMETHACRYLATE:

Result: **Slight, transient irritation**

PHOSPHOROUS ACID, TRIPHENYL ESTER:

Species: **Rabbit**
Result: **Eye irritation**

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:**2,6-DI-TERT-BUTYLPHENOL:**

Test Type: **Maximisation Test**
Species: **Guinea pig**
Assessment: **Does not cause skin sensitisation.**
Method: **OECD Test Guideline 406**

METHYLMETHACRYLATE:

Test Type: **Local lymph node assay**
Species: **Mouse**
Assessment: **The product is a skin sensitiser, sub-category 1B.**
Method: **OECD Test Guideline 429**

PHOSPHOROUS ACID, TRIPHENYL ESTER:

Test Type: **Local lymph node assay**
Species: **Mouse**
Assessment: **The product is a skin sensitiser, sub-category 1A.**

Germ cell mutagenicity

Not classified based on available information.

Components:**2,6-DI-TERT-BUTYLPHENOL:**

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

PHOSPHOROUS ACID, TRIPHENYL ESTER:

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


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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:
METHYLMETHACRYLATE:
Target Organs: **Upper respiratory tract**Assessment: **May cause respiratory irritation.**
STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:
HYDROTREATED LIGHT PARAFFINIC DISTILLATE:
May be fatal if swallowed and enters airways.
Further information
Product:

Remarks: No data available

SECTION 12: Ecological information
12.1 Toxicity
Components:

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Toxicity to fish : **LC50 (Oncorhynchus mykiss (rainbow trout)): 4,4 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 (Water flea (Daphnia magna)): 75 mg/l**
 Exposure time: **48 h**
 Test Type: **static test**

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Test substance: **WAF**
 Method: **OECD Test Guideline 202**

Toxicity to algae : **EL50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 410 mg/l**
 End point: **Growth inhibition**
 Exposure time: **72 h**
 Test Type: **static test**
 Test substance: **WAF**

2,6-di-tert-butylphenol

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): 13 mg/l**
 Exposure time: **96 h**
 Test Type: **static test**
 Method: **OECD Test Guideline 203**

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,1 mg/l
 Exposure time: **96 h**
 Test Type: **semi-static test**
 Method: **OECD Test Guideline 203**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Water flea (Daphnia magna)): 0,45 mg/l**
 Exposure time: **48 h**
 Test Type: **flow-through test**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae)): 3,6 mg/l**
 Exposure time: **72 h**
 Test Type: **static test**

M-Factor (Acute aquatic toxicity) : **1**

Toxicity to fish (Chronic toxicity) : **NOEC: 0,30 mg/l**
 Exposure time: **14 d**
 Species: **Pimephales promelas (fathead minnow)**
 Test Type: **flow-through test**

M-Factor (Chronic aquatic toxicity) : **1**

Methyl methacrylate

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 130 mg/l**
 Exposure time: **96 h**
 Method: **Static**

LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l
 Exposure time: **96 h**
 Test Type: **flow-through test**

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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Water flea (<i>Daphnia magna</i>)): 69 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae	: EC50 (<i>Pseudokirchneriella subcapitata</i> (algae)): > 110 mg/l Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic toxicity)	: LC50: 33,7 mg/l Exposure time: 35 d Species: <i>Danio rerio</i> (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 37 mg/l Exposure time: 21 d Species: Water flea (<i>Daphnia magna</i>) Test Type: flow-through test Method: OECD Test Guideline 211

Triphenyl phosphite
Ecotoxicology Assessment

Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability**Components:**

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Biodegradability	: Result: Not biodegradable Biodegradation: < 5 % Exposure time: 27 d Method: OECD Test Guideline 301D
------------------	---

2,6-di-tert-butylphenol

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 12 - 24 % Exposure time: 28 d Method: OECD Test Guideline 302C
------------------	--

Methyl methacrylate

Biodegradability	: Result: Readily biodegradable. Biodegradation: 94,3 % Exposure time: 14 d Method: OECD Test Guideline 301C
------------------	---

Triphenyl phosphite



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Biodegradability : Result: **Readily biodegradable.**
 Biodegradation: **84 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301D**

12.3 Bioaccumulative potential

Components:

2,6-di-tert-butylphenol

Bioaccumulation : Species: **Green algae (Chlorella fusca vacuolata)**
 Exposure time: **24 h**
 Concentration: **0,05 mg/l**
 Bioconcentration factor (BCF): **800**
 Method: **Static**

Species: **Carp (Leuciscus idus melanotus)**
 Exposure time: **3 d**
 Concentration: **0,037 mg/l**
 Bioconcentration factor (BCF): **660**
 Method: **Renewal**

Partition coefficient: n-octanol/water : log Pow: **4,92**

Methyl methacrylate

Partition coefficient: n-octanol/water : log Pow: **1,38**

Triphenyl phosphite

Partition coefficient: n-octanol/water : log Pow: **6,62**
 Remarks: **QSAR**

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods


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Product : 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
SECTION 14: Transport information
14.1 UN number

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.2 UN proper shipping name

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.3 Transport hazard class(es)

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.4 Packing group

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods


INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.5 Environmental hazards

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

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

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable


REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

The components of this product are reported in the following inventories:

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- 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
- 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)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information


Further information

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Full text of H-Statements

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304** May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317** May cause an allergic skin reaction.
- H318** Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335** May cause respiratory irritation.
- H400** Very 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

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Valvoline's Environmental Health and Safety Department
(+31 (0)78 654 3500).

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

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

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ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
 CLP : Classification, Labelling and Packaging
 CSA : Chemical Safety Assessment
 CSR : Chemical Safety Report
 DNEL : Derived No Effect Level.
 EINECS : European Inventory of Existing Commercial Chemical Substances.
 ELINCS : European List of Notified Chemical Substances
 PEC : Predicted Effect Concentration
 PEL : Permissible Exposure Limits
 PNEC : Predicted No Effect Concentration
 R-phrase : Risk phrase
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
 S-phrase: Safety phrase
 WGK : German Water Hazard Class