	
<b>SAFETY DATA SHEET</b>	Revision Date: 26.07.2017
	Print Date: 02.01.2018
	SDS Number: R0517049
Valvoline™ LHM PLUS SPECIAL BLEND	Version: 1.3
VE15900	

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

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

### 1.1 Product identifier

Trade name : Valvoline™ LHM PLUS  
SPECIAL BLEND

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

Recommended use : Hydraulic oil

### 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

SDS@valvoline.com

### 1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact  
your local emergency telephone number at 112

### Product Information

+31 (0)78 654 3500 (in the Netherlands), or  
contact your local CSR contact person

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters  
airways.

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 pictograms :




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Signal word	: Danger	
Hazard statements	: H304	May be fatal if swallowed and enters airways.
	: H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	: P101	If medical advice is needed, have product container or label at hand.
	: P102	Keep out of reach of children.
	<b>Response:</b>	
	: P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	: P331	Do NOT induce vomiting.
	<b>Storage:</b>	
	: P405	Store locked up.
	<b>Disposal:</b>	
	: P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  
White mineral oil

**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 (%)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	72623-86-0 276-737-9	Asp. Tox.1; H304	>= 70,00 - < 80,00
White mineral oil	8042-47-5 232-455-8 01-2119487078-27-xxxx	Asp. Tox.1; H304	>= 40,00 - < 50,00
2,6-di-tert-Butyl-p- cresol	128-37-0 204-881-4	Aquatic Acute1; H400	>= 0,50 - < 1,00


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	01-2119565113-46-xxxx	Aquatic Chronic1; H410	
Phenol, isopropylated, phosphate (3:1)	68937-41-7	Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410	>= 0,50 - < 1,00

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Move to 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 : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
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)
- 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


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(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.

May be fatal if swallowed and enters airways.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : No hazards which require special first aid measures.

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**SECTION 5: Firefighting measures**
**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 (CO<sub>2</sub>)

Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Hydrogen chloride gas

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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


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methods

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Personal precautions : Use personal protective equipment.  
 Ensure adequate ventilation.  
 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).  
 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.

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**SECTION 7: Handling and storage**
**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.

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


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fire and explosion

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

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

**7.3 Specific end use(s)**

Specific use(s) : No data available

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,6-di-tert-Butyl-p-cresol	128-37-0	TWA	10 mg/m <sup>3</sup>	GB EH40

**8.2 Exposure controls**
**Engineering measures**

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.

Hand protection

Remarks : Nitrile rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.


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- Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : green
- Odour : No data available
- Odour Threshold : No data available
- pH :  
Not applicable
- Melting point/freezing point : not determined
- Boiling point/boiling range : > 200 °C
- Flash point : 125 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : not determined
- Lower explosion limit : not determined
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : No data available
- Density : ca. 0,84 g/cm<sup>3</sup> (20 °C)
- Solubility(ies)  
Water solubility : insoluble


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Solubility in other solvents : No data available

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

Auto-ignition temperature : 215 °C

Decomposition temperature : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : 18 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

**9.2 Other information**

No data available

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**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  
Exposure to sunlight.
**10.5 Incompatible materials**
Materials to avoid : Iron  
steel  
Strong acids  
Strong oxidizing agents
**10.6 Hazardous decomposition products**
Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Hydrogen chloride gas




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**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:**
**Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

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

**Components:**
**Mineral Oil:**

Acute oral toxicity : LD50 (Rat): 50.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**Components:**
**BUTYLATED HYDROXY TOLUENE:**

Acute oral toxicity : LD50 (Rat): > 6.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: No mortality observed at this dose.

**Components:**
**PHENOL ISOPROPYLATED PHOSPHATE:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.


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**Product:**

Result: No skin irritation

**Components:****Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Result: No skin irritation

**Mineral Oil:**

Result: No skin irritation

**BUTYLATED HYDROXY TOLUENE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

**PHENOL ISOPROPYLATED PHOSPHATE:**

Species: Rabbit

Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: No eye irritation

Remarks: Unlikely to cause eye irritation or injury.

**Components:****Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Result: No eye irritation

**Mineral Oil:**

Result: No eye irritation

**BUTYLATED HYDROXY TOLUENE:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Slight, transient irritation

**PHENOL ISOPROPYLATED PHOSPHATE:**


Species: Rabbit

Result: No eye irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

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**Components:**

**BUTYLATED HYDROXY TOLUENE:**

Assessment: Does not cause skin sensitisation.

**PHENOL ISOPROPYLATED PHOSPHATE:**

Test Type: Local lymph node assay

Species: Mouse

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 429

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**BUTYLATED HYDROXY TOLUENE:**

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

**PHENOL ISOPROPYLATED PHOSPHATE:**

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

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**PHENOL ISOPROPYLATED PHOSPHATE:**

Reproductive toxicity - Assessment : Some 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.


**Components:**

**PHENOL ISOPROPYLATED PHOSPHATE:**

Exposure routes: Ingestion

Target Organs: Adrenal gland

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

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exposure, category 2.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**Mineral Oil:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: Solvents may degrease the skin.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

2,6-di-tert-Butyl-p-cresol

Toxicity to fish : LC50 (Fish): Estimated 0,199 mg/l  
 Exposure time: 96 h  
 Remarks: QSAR

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 0,48 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,053 mg/l  
 Exposure time: 42 d  
 Species: Oryzias latipes (Orange-red killifish)  
 Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 1

Phenol, isopropylated, phosphate (3:1)  
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l  
 Exposure time: 96 h  
 Test Type: static test


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NOEC (Oncorhynchus mykiss (rainbow trout)): 1,0 mg/l

Exposure time: 96 h

Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Water flea (Daphnia magna)): 1,5 mg/l

Exposure time: 48 h

Test Type: static test

NOEC (Water flea (Daphnia magna)): 1,0 mg/l

Exposure time: 48 h

Test Type: static test

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,31 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 0,0031 mg/l

Exposure time: 33 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0415 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

## 12.2 Persistence and degradability

### Components:


2,6-di-tert-Butyl-p-cresol

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 4,5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

Physico-chemical removability : Remarks: The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Phenol, isopropylated, phosphate (3:1)

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 17,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

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### 12.3 Bioaccumulative potential

**Components:**

2,6-di-tert-Butyl-p-cresol  
 Partition coefficient: n-octanol/water : log Pow: 4,17 (21 °C)

Phenol, isopropylated, phosphate (3:1)  
 Partition coefficient: n-octanol/water : log Pow: 4,9 - 5,2

### 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.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.

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.  
 Do not re-use empty containers.

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## SECTION 14: Transport information

### SECTION 14: Transport information

#### 14.1 UN number

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

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**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  
**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.

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## 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:

DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.

AICS Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

TSCA Not On TSCA Inventory




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**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

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**SECTION 16: Other information**
**Further information**

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**Full text of H-Statements**

H304	May be fatal if swallowed and enters airways.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
<b>H400</b>	Very toxic to aquatic life.
H410	Very 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 (+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


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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

ABM : Water Hazard Class for the Netherlands

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

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