



# SAFETY DATA SHEET

Version: 5.0

Revision Date: 06.11.2020

Print Date: 25/10/2022

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

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

### 1.1 Product identifier

Trade name : No data available

Product code : 872375

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

Recommended use : Engine, gear & lubricating 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

+1-800-VALVOLINE (+1-800-825-8654), or  
contact your local emergency telephone number at  
+36 80 201 199

### 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)

Not a hazardous substance or mixture.

### 2.2 Label elements

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

Not a hazardous substance or mixture.

#### Additional Labelling:

EUH210 Safety data sheet available on request.

EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.



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## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 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), C20-50, Hydrotreated Neutral Oil-Based	72623-87-1 276-738-4 01-2119474889-13-xxxx	Asp. Tox.1; H304	>= 5,00 - < 10,00
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 5,00 - < 10,00
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	72623-86-0 276-737-9	Asp. Tox.1; H304	>= 5,00 - < 10,00
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 1,00 - < 2,50
C14-16-18 Alkyl phenol	931-468-2 01-2119498288-19-xxxx	Skin Sens.1B; H317 STOT RE2; H373	>= 0,10 - < 0,50

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.



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- 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 : No symptoms known or expected.

## 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

### 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 : Nitrogen oxides (NO<sub>x</sub>)  
Hydrocarbons  
carbon dioxide and carbon monoxide



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## 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 : Standard procedure for chemical fires.

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## 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 further leakage or spillage if safe to do so.

### 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 : 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.

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## 7.2 Conditions for safe storage, including any incompatibilities

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
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m3 Mist	HU OEL

### 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.

Hand protection

Remarks : Nitrile rubber butyl-rubber

Skin and body protection : Wear as appropriate:  
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: amber
Odour	: oily
Odour Threshold	: No data available
pH	: Not applicable
Pour point	: < -39 °C
Boiling point/boiling range	: No data available
Flash point	: 213 °C Method: ASTM D 92, Cleveland open cup
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,852 g/cm <sup>3</sup> (15 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available



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Viscosity, kinematic : ca. 68 mm<sup>2</sup>/s (40 °C)  
Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : 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 : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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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.

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## Components:

### **Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

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 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.

## Components:

### **HEAVY PARAFFINIC DISTILLATE:**

Acute oral toxicity	: LD50 (Rat): > 15 g/kg
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg

## Components:

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

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

### **REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):**

Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg Remarks: No mortality observed at this dose.
Acute dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: Information given is based on data obtained from similar substances.

## Components:

### **C14-16-18 Alkyl phenol:**

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





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Remarks: No mortality observed at this dose.

## Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Species: Rabbit

Result: No skin irritation

#### HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

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

Result: No skin irritation

#### REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: Rabbit

Result: Mild skin irritation

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

#### C14-16-18 Alkyl phenol:

Method: OECD Test Guideline 431

Result: No skin irritation

## Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Result: Slight, transient irritation

Remarks: Expected based on components.

Remarks: Unlikely to cause eye irritation or injury.

### Components:

#### Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Species: Rabbit

Result: No eye irritation

#### HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

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

Result: No eye irritation

#### REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):



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Species: **Rabbit**  
Result: **Slight, transient irritation**  
Remarks: **Information given is based on data obtained from similar substances.**

#### **C14-16-18 Alkyl phenol:**

Species: **Rabbit**  
Result: **Slight, transient irritation**

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.  
Respiratory sensitisation: Not classified based on available information.

#### **Components:**

#### **Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

Test Type: **Buehler Test**  
Species: **Guinea pig**  
Assessment: **Does not cause skin sensitisation.**

#### **REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):**

Species: **Guinea pig**  
Assessment: **Does not cause skin sensitisation.**  
Method: **OECD Test Guideline 406**  
Remarks: **Information given is based on data obtained from similar substances.**

#### **C14-16-18 Alkyl phenol:**

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

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

#### **REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):**

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

#### **C14-16-18 Alkyl phenol:**

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.

### **Components:**

#### **Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

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

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

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:**

#### **C14-16-18 Alkyl phenol:**

Target Organs: Liver  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

May be fatal if swallowed and enters airways.

#### **HEAVY PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

## **Further information**

### **Product:**

Remarks: No data available

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## **SECTION 12: Ecological information**



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## 12.1 Toxicity

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

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**: >= 1.000 mg/l  
Exposure time: 14 d  
Species: **Oncorhynchus mykiss (rainbow trout)**

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

Distillates (petroleum), hydrotreated heavy paraffinic

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**: 10 mg/l  
Species: **Fish**



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 10 mg/l Species: Aquatic invertebrates
bis(nonylphenyl)amine	
Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Remarks: Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test

C14-16-18 Alkyl phenol	
Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

## 12.2 Persistence and degradability

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Biodegradability	: Result: Not readily biodegradable. Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B
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bis(nonylphenyl)amine

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **0 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

C14-16-18 Alkyl phenol

Biodegradability : Result: **Readily biodegradable.**  
Remarks: **Expert judgement**

## 12.3 Bioaccumulative potential

### Components:

bis(nonylphenyl)amine

Partition coefficient: n-octanol/water : log Pow: **> 7,5**

C14-16-18 Alkyl phenol

Partition coefficient: n-octanol/water : log Pow: **> 7,2**

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.



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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol 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

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



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

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

Directive 96/82/EC does not apply

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

#### Other regulations:

2000 XXV. Law on chemical safety  
44/2000. (XII 27) Ministry of health dangerous substances and preparations dangerous for certain procedures and arrangements for activities

#### 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





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## Inventories

AICS (Australia), AIC (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

Internal information : R0517102

### Full text of H-Statements

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+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



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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.  
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