



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

---

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

### **1.1 Product identifier**

Trade name : Valvoline™ HD TDL PRO 75W90  
SYNTHETIC GEAR OIL

Product code : 868211

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

Use of the substance/mixture : Engine, gear & lubricating oil.

### **1.3 Details of the supplier of the safety data sheet**

Company : Ellis Enterprises B.V., an affiliate of Valvoline  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands

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

E-mail address of person : SDS@valvoline.com  
responsible for the SDS

### **1.4 Emergency telephone number**

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

---

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Not a hazardous substance or mixture.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

## 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl, DI-TERT-BUTYL POLYSULFIDE.

May produce an allergic reaction.

## 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
DECENE-1 HOMOPOLYMER HYDROGENATED	68037-01-4 500-183-1 01-2119486452-34- xxxx	Asp. Tox. 1; H304	>= 50 - < 60
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25- xxxx	Asp. Tox. 1; H304	>= 5 - < 10
DI-TERT-BUTYL POLYSULFIDE	68937-96-2 273-103-3 01-2119540515-43- xxxx	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 2.5 - < 5
Reaction products of 4-methyl-2- pentanol and diphosphorus	Not Assigned 931-384-6	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 2.5



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
 Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
 GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl	01-2119493620-38-xxxx	<b>Skin Sens. 1B;</b> <b>H317</b> <b>Aquatic Chronic 2;</b> <b>H411</b>	
		specific concentration limit <b>Eye Dam. 1</b> <b>&gt; 50 - 100 %</b> <b>Skin Sens. 1</b> <b>&gt;= 9.39 %</b>	
ARYL THIOPHOSPHATE	597-82-0 209-909-9 01-2119979545-21-xxxx	<b>Repr. 2; H361</b>	<b>&gt;= 0.1 - &lt; 0.5</b>

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.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Induce vomiting immediately and 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.

Treat symptomatically.

---

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Unsuitable extinguishing media : High volume water jet

**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

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

### 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

See sections: 7, 8, 11, 12 and 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

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

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

### 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Further information on storage stability : 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**

Contains no substances with occupational exposure limit values.

**Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
DIISOCTYL ADIPATE	Soil	0.865 mg/kg

**8.2 Exposure controls**

**Personal protective equipment**

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

**Hand protection**

Material : neoprene, nitrile rubber  
Break through time : >= 240 min  
Glove thickness : >= 0.35 mm  
Directive : Equipment should conform to EN 374

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.  
The suitability for a specific workplace should be discussed



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

- with the producers of the protective gloves.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- 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
- Colour : amber
- Odour : oily
- Odour Threshold : No data available
- pH : Not applicable
- Pour point : < -48 °C
- Boiling point/boiling range : No data available
- Flash point : 196 °C  
Method: Cleveland open cup
- Evaporation rate : No data available
- 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



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

---

Density	:	ca. 0.865 g/cm <sup>3</sup> (15 °C)
Solubility(ies)		
Water solubility	:	insoluble
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	:	ca. 101 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	:	No data available

## 9.2 Other information

Self-ignition	:	No data available
---------------	---	-------------------

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 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

No hazardous decomposition products are known.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

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

**DI-TERT-BUTYL POLYSULFIDE:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.  
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

Acute oral toxicity : LD50 (Rat): ca. 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

**ARYL THIOPHOSPHATE:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg  
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: The toxicological data has been taken from products of similar composition.

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species : Rabbit  
Result : No skin irritation

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

**DI-TERT-BUTYL POLYSULFIDE:**

Result : Mild skin irritation

**ARYL THIOPHOSPHATE:**

Species : Rabbit  
Result : Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

**Product:**

Result : Slight, transient irritation  
Remarks : Expected based on components.  
  
Remarks : May cause irreversible eye damage.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species : Rabbit  
Result : Slight, transient irritation

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

Assessment : No eye irritation  
Result : No eye irritation

**DI-TERT-BUTYL POLYSULFIDE:**

Result : Slight, transient irritation

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

Result : Corrosive

**ARYL THIOPHOSPHATE:**

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.

**Product:**

Assessment : Does not cause skin sensitisation.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Test Type : Maximisation Test  
Species : Guinea pig



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

**DI-TERT-BUTYL POLYSULFIDE:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 406

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

Assessment : The product is a skin sensitiser, sub-category 1B.

**ARYL THIOPHOSPHATE:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : Directive 67/548/EEC, Annex V, B.6.  
Remarks : The toxicological data has been taken from products of similar composition.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

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

**DI-TERT-BUTYL POLYSULFIDE:**

Genotoxicity in vitro : Test Type: in vitro assay  
Result: Positive results were obtained in some in vitro tests.  
Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Method: OECD Test Guideline 474  
Result: negative

**ARYL THIOPHOSPHATE:**



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Genotoxicity in vitro : Test Type: **Ames test**  
Test system: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**  
Remarks: **The toxicological data has been taken from products of similar composition.**

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

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.

**Components:**

**ARYL THIOPHOSPHATE:**

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.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

**The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.**

**Distillates (Petroleum), Hydrotreated Heavy Paraffinic:**

**May be fatal if swallowed and enters airways.**

**Further information**

**Product:**



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

#### Components:

#### DECENE-1 HOMOPOLYMER HYDROGENATED:

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l**  
Exposure time: **96 h**  
Test Type: **semi-static test**  
Test substance: **WAF**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): > 1,000 mg/l**  
Exposure time: **48 h**  
Test Type: **static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 202**

Toxicity to algae/aquatic plants : **EL50 (Scenedesmus capricornutum (fresh water algae)): > 1,000 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 201**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOELR: 125 mg/l**  
Exposure time: **21 d**  
Species: **Daphnia magna (Water flea)**  
Test Type: **semi-static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 211**

#### Ecotoxicology Assessment

Acute aquatic toxicity : **Not classified based on available information.**



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Chronic aquatic toxicity : Not classified based on available information.

**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/aquatic plants : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Species: Aquatic invertebrates

**Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

**DI-TERT-BUTYL POLYSULFIDE:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.  
Acute aquatic toxicity Category 3; Harmful to aquatic life.

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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): ca. 24 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): ca. 91.4 mg/l



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

aquatic invertebrates	Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201  NOEC (Pseudokirchneriella subcapitata (green algae)): 3.3 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0.12 mg/l End point: Reproduction Test Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211

**Ecotoxicology Assessment**

Acute aquatic toxicity	: Toxic to aquatic life.  Acute aquatic toxicity Category 2; Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.  Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

**ARYL THIOPHOSPHATE:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 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)): > 100 mg/l Exposure time: 48 h Test Type: static test



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Toxicity to algae/aquatic plants : Method: **OECD Test Guideline 202**  
**EC50 (Desmodesmus subspicatus (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**

**Ecotoxicology Assessment**

Acute aquatic toxicity :

**Not classified based on available information.**

Chronic aquatic toxicity : **This product has no known ecotoxicological effects., No toxicity at the limit of solubility**

**Not classified based on available information.**

**12.2 Persistence and degradability**

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Biodegradability : Result: **Inherently biodegradable.**

**DI-TERT-BUTYL POLYSULFIDE:**

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **13 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **7.4 %**  
Exposure time: **28 d**  
Method: **Modified Sturm Test**

**ARYL THIOPHOSPHATE:**

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **18 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

Biodegradation: 59.9 - 66.8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302C

### 12.3 Bioaccumulative potential

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Partition coefficient: n-octanol/water : log Pow: > 6.5

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl:

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

**ARYL THIOPHOSPHATE:**

Bioaccumulation : Bioconcentration factor (BCF): 2,551

Partition coefficient: n-octanol/water : log Pow: 5.0

### 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:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological : No data available



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

information

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.  
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.  
Do not re-use empty containers.

---

## SECTION 14: Transport information

### 14.1 UN number

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA\_P : Not regulated as a dangerous good

### 14.2 UN proper shipping name

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA\_P : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA\_P : Not regulated as a dangerous good

### 14.4 Packing group

- ADR : Not regulated as a dangerous good



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA\_P (Passenger)** : 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.

---

**SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

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

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

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

**Other regulations:**

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

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



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

---

TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.  ANGLAMOL 2000
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

No data available

#### Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

---

## SECTION 16: Other information

### Full text of H-Statements

H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H361	:	Suspected of damaging fertility or the unborn child.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Repr.	:	Reproductive toxicity
Skin Sens.	:	Skin sensitisation



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Internal information : R0517101

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ HD TDL PRO 75W90 SYNTHETIC  
GEAR OIL

Version: 6.0

Revision Date: 31.01.2023

Print Date: 27/06/2023

---