


**SAFETY DATA SHEET**

Revision Date: 01.05.2019

Print Date: 28.12.2021

SDS Number: R0517101

Version: 3.0

Valvoline™ TDL 75W90 Gear Oil  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries  
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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_DE

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

Trade name : Valvoline™ TDL 75W90  
 Gear Oil  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries

**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**

00-800-825-8654 / 001-859-202-3865, or contact  
 your local emergency telephone number at 0 30-1  
 92 40

**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 Di-tert-butyl polysulfide, Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl. May produce an allergic


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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.

**Additional advice**

No information available.

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

| Chemical name                                                                                                                                                                                    | CAS-No.<br>EC-No.<br>Registration number         | Classification<br>(REGULATION (EC)<br>No 1272/2008)                                     | Concentration (%)  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------|
| DECENE-1<br>HOMOPOLYMER<br>HYDROGENATED                                                                                                                                                          | 68037-01-4<br>01-2119486452-34-xxxx              | Asp. Tox.1; H304                                                                        | >= 50,00 - < 60,00 |
| Distillates (petroleum),<br>hydrotreated heavy<br>paraffinic                                                                                                                                     | 64742-54-7<br>265-157-1<br>01-2119484627-25-xxxx | Asp. Tox.1; H304                                                                        | >= 5,00 - < 10,00  |
| Di-tert-butyl polysulfide                                                                                                                                                                        | 68937-96-2<br>273-103-3<br>01-2119540515-43-xxxx | Skin Sens.1B; H317<br>Aquatic Chronic3;<br>H412                                         | >= 2,50 - < 5,00   |
| Reaction products of 4-<br>methyl-2-pentanol and<br>diphosphorus<br>pentasulfide,<br>propoxylated, esterified<br>with diphosphorus<br>pentaoxide, and salted<br>by amines, C12-14-tert-<br>alkyl | 931-384-6<br>01-2119493620-38-xxxx               | Acute Tox.4; H302<br>Eye Dam.1; H318<br>Skin Sens.1B; H317<br>Aquatic Chronic2;<br>H411 | >= 1,00 - < 2,50   |
| O,O,O-Triphenyl<br>phosphorothioate                                                                                                                                                              | 597-82-0<br>01-2119979545-21-xxxx                | Repr.2; H361                                                                            | >= 0,10 - < 0,50   |

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 : Remove contaminated clothing. If irritation develops, get medical attention.  
 If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.
- 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 : 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
- Unsuitable extinguishing media : High volume water jet


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**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  
 Sulphur oxides  
 Nitrogen oxides (NOx)  
 hydrogen sulfide  
 Aldehydes

**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.  
 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.  
 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 : Use personal protective equipment.  
 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,


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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 : 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 fire and explosion : Normal measures for preventive fire protection.

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.

Storage class (TRGS 510) : 10, Combustible liquids

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       |
|----------------------|------------|-------------------------------|-------------------------------------------|-------------|
| DECENE-1 HOMOPOLYMER | 68037-01-4 | AGW (Alveolate fraction)      | 5 mg/m <sup>3</sup><br>Alveolate fraction | DE TRGS 900 |


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|                                                        |            |                           |                                |             |
|--------------------------------------------------------|------------|---------------------------|--------------------------------|-------------|
| HYDROGENATED                                           |            |                           |                                |             |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | AGW (Vapour and aerosols) | 5 mg/m3<br>Vapour and aerosols | DE TRGS 900 |

**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  
 Material : Wear resistant gloves such as:  
 nitrile rubber  
 butyl-rubber
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
 The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- 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.

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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


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|                                                  |   |                                      |
|--------------------------------------------------|---|--------------------------------------|
| pH                                               | : | Not applicable                       |
| Pour point                                       | : | < -48 °C                             |
| Boiling point/boiling range                      | : | No data available                    |
| Flash point                                      | : | 196 °C<br>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                    |
| 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 |
|---------------|---|-------------------|


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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.

**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



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Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Components:****HEAVY PARAFFINIC DISTILLATE:**

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

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

**Components:****OLEFINSULFIDE:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: OECD Test Guideline 401  
 Assessment: Not classified as acutely toxic by ingestion under GHS.  
 Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
 Remarks: No mortality observed at this dose.

**Components:**

**Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and s:**

Acute oral toxicity : LD50 (Rat): ca. 2.000 mg/kg  
 Method: OECD Test Guideline 401  
 Assessment: The component/mixture is classified as acute oral toxicity, category 4.

**Components:****ARYL THIOPHOSPHATE:**

Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg

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

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similar substances.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species: Rabbit

Result: No skin irritation

**HEAVY PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**OLEFINSULFIDE:**

Result: Mild skin irritation

**ARYL THIOPHOSPHATE:**

Species: Rabbit

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Slight, transient irritation

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:****DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species: Rabbit

Result: Slight, transient irritation

**HEAVY PARAFFINIC DISTILLATE:**

Result: No eye irritation

**OLEFINSULFIDE:**

Result: Slight, transient irritation

**Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and s:**

Result: Corrosive

**ARYL THIOPHOSPHATE:**

Species: Rabbit

Result: No eye irritation



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### 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

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

#### OLEFINSULFIDE:

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 s:

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

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### DECENE-1 HOMOPOLYMER HYDROGENATED:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

#### OLEFINSULFIDE:

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

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Test species: **Mouse**  
Cell type: **Bone marrow**  
Method: **OECD Test Guideline 474**  
Result: **negative**

**ARYL THIOPHOSPHATE:**

Genotoxicity in vitro : Test Type: **Ames test**  
Test species: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**  
Remarks: **Information given is based on data obtained from similar substances.**

**Carcinogenicity**

Not classified based on available information.

**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.**

**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****12.1 Toxicity****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 : **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**

**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**

Toxicity to daphnia and other : **NOEC: 10 mg/l**



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aquatic invertebrates Species: **Aquatic invertebrates**  
 (Chronic toxicity)

Di-tert-butyl polysulfide  
 Ecotoxicology Assessment

Short-term (acute) aquatic hazard : **Harmful to aquatic life.**

Long-term (chronic) aquatic hazard : **Harmful to aquatic life with long lasting effects.**

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, 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 aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): ca. 91,4 mg/l**  
 Exposure time: **48 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 202**

Toxicity to algae : **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**  
 Exposure time: **21 d**  
 End point: **Reproduction Test**  
 Species: **Daphnia magna (Water flea)**  
 Test Type: **semi-static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 211**

Ecotoxicology Assessment

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Short-term (acute) aquatic hazard : **Toxic to aquatic life.**

Long-term (chronic) aquatic hazard : **Toxic to aquatic life with long lasting effects.**

**O,O,O-Triphenyl phosphorothioate**

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**  
 Method: **OECD Test Guideline 202**

Toxicity to algae : **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**

Long-term (chronic) aquatic hazard : **This product has no known ecotoxicological effects., No toxicity at the limit of solubility**

## 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**

**O,O,O-Triphenyl phosphorothioate**

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

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**

O,O,O-Triphenyl phosphorothioate

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:**

Additional ecological information : No data available

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**SECTION 13: Disposal considerations**



|                                                                                                                        |  |                           |
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### 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.  
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

### 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

|                                                                                                                        |  |                           |
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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

Water contaminating class (Germany) : WGK 2 obviously hazardous to water

TA Luft List (Germany) : Total dust, Not applicable  
 : Inorganic substances in powdered form, Not applicable  
 : Inorganic substances in vapour or gaseous form, Not applicable  
 : Organic Substances, Class 1 0,33 %  
 : Carcinogenic substances, Not applicable  
 : Mutagenic, Not applicable  
 : Toxic to reproduction, 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 On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory


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 879869

|       |                                                       |
|-------|-------------------------------------------------------|
| KECI  | On the inventory, or in compliance with the inventory |
| PICCS | Not in compliance with the inventory                  |
| IECSC | Not in compliance with the inventory                  |
| TCSI  | On the inventory, or in compliance with the inventory |
| TSCA  | On TSCA Inventory                                     |

**Inventories**

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

**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**

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


|                                                                                                                        |  |                           |
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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.  
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.

|                                                                                                                        |                           |
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- 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