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

1.1. Product identifier

Product form : Mixture
Product name : 85W140 GL-5
Product code : 401022
Product group : Transmission Fluids

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
Industrial/Professional use spec : Non-dispersive use, Used in closed systems
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Valeo Service
70 Rue Pleyel
93200 Saint Denis France
Tel. +33 (0)1 49 45 32 32
Email: vsao.contact.mailbox@valeo.com

1.4. Emergency telephone number

Emergency number / Poison Center : +33 1 49 45 32 32 (working hours) / +33 3 83 85 21 92
OR Please contact local poison center (https://apps.who.int/poisoncentres/PoisonCentres_201902.pdf)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements

EUH208 - Contains Polysulphides, di-tert-Bu([68937-96-2]), Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction
EUH210 - Safety data sheet available on request

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments : The mineral oils in the product contain < 3% UMMSU extract (IP 346)

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polysulphides, di-tert-Bu</td>
<td>(CAS No) 68937-96-2</td>
<td>1 - 4.9</td>
<td>Skin Sens. 1B, H317 Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl</td>
<td>(EC no) 931-384-6</td>
<td>0.1 - 0.99 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td></td>
<td>(REACH-no) 01-2119493620-38</td>
<td>(C &gt;= 50) Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Cis-9-octadecenyl-1,3-propanediamine</td>
<td>(CAS No) 7173-62-8</td>
<td>0.01 - 0.099 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td></td>
<td>(EC no) 230-526-9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH-no) 01-2119487002-46</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

**SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures after inhalation: Not expected to require first aid measures.

First-aid measures after skin contact: Wash skin with mild soap and water.

First-aid measures after eye contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes.

First-aid measures after ingestion: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/injuries after eye contact: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

**SECTION 5: Firefighting measures**

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear suitable protective clothing and gloves.

6.1.2. For emergency responders

Protective equipment: Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.

Other information: Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available
Precautions for safe handling

Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Handling temperature : < 40 °C
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage temperature : < 40 °C
Storage area : Store in dry, cool, well-ventilated area.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

Additional information : 5 mg/m³ for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.2. Exposure controls

Personal protective equipment:
Safety glasses. Gloves.

Hand protection:
Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR)

Skin and body protection:
No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Oily liquid.
Colour : Yellow-brown.
Odour : Characteristic.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : > 210 °C @ ASTM D92
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 908 kg/m³ @15°C
Solubility : Slightly soluble, the product remains on the water surface.
Log Pow: No data available
Viscosity, kinematic: 372 mm²/s @ 40°C

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Explosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials


10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

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

NOAEL (oral, rat, 90 days): 150 mg/kg bodyweight/day @28d (OECD 407)

Aspiration hazard: Not classified

85W140 GL 5

Viscosity, kinematic: 372 mm²/s @ 40°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Polysulphides, di-tert-Bu (68937-96-2)

EC50 Daphnia 1: 63 mg/l @2d

EC50 other aquatic organisms 1: > mg/l

EC50 72h algae (2): > 100 mg/l

EC50 96h algae (1): > 10000 mg/l Slb @0.1DY

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

LC50 fish 1: 24 mg/l @4d Oncorhynchus mykiss
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>8.5 mg/l Pimephales promelas @4d</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>91.4 mg/l Daphnia magna</td>
</tr>
</tbody>
</table>

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
### 12.2. Persistence and degradability

**85W40 GL 5**

| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl | EC50 72h algae (1) | 6.4 mg/l Selenastrum capricornutum |
| NOEC (chronic) | 3.2 mg/l Oncorhynchus mykiss @4d |
| NOEC chronic crustacea | 0.12 mg/l Daphnia magna @2d |
| NOEC chronic algae | 1.7 mg/l Selenastrum capricornutum @4d |

**N-Cis-9-octadecenyl-1,3-propanediamine (7173-62-8)**

| LC50 fish 1 | > 0.1 mg/l (Brachydanio rerio) |
| EC50 Daphnia 1 | > 0.01 mg/l (Daphnia magna) |
| EC50 72h algae (1) | > 0.01 mg/l |
| NOEC chronic crustacea | > 0.001 @21DY (Daphnia magna) |

**Polysulphides, di-tert-Bu (68937-96-2)**

| BOD (% of ThOD) | 3.6 % ThOD @28d inherent sediment |
| Biodegradation | 7.4 % Sturm (28d) OECD TG 301B |

### 12.3. Bioaccumulative potential

**Polysulphides, di-tert-Bu (68937-96-2)**

| Log Kow | 6 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

| Additional information | Dispose in a safe manner in accordance with local/national regulations. |

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

| UN-No. (ADR) | Not applicable |
| UN-No. (IMDG) | Not applicable |
| UN-No. (IATA) | Not applicable |
| UN-No. (ADN) | Not applicable |
| UN-No. (RID) | Not applicable |

#### 14.2. UN proper shipping name

| Proper Shipping Name (ADR) | Not applicable |
| Proper Shipping Name (IMDG) | Not applicable |
| Proper Shipping Name (IATA) | Not applicable |
| Proper Shipping Name (ADN) | Not applicable |
| Proper Shipping Name (RID) | Not applicable |

#### 14.3. Transport hazard class(es)

**ADR**

| Transport hazard class(es) (ADR) | Not applicable |

**IMDG**

| Transport hazard class(es) (IMDG) | Not applicable |
14.4. **Packing group**

- **Packing group (ADR)**: Not applicable
- **Packing group (IMDG)**: Not applicable
- **Packing group (IATA)**: Not applicable
- **Packing group (ADN)**: Not applicable
- **Packing group (RID)**: Not applicable

14.5. **Environmental hazards**

- Dangerous for the environment: No
- Marine pollutant: No
- Other information: No supplementary information available

14.6. **Special precautions for user**

- **Overland transport**: No data available
- **Transport by sea**: No data available
- **Air transport**: No data available
- **Inland waterway transport**: No data available
- **Rail transport**: No data available

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

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

15.1.1. **EU-Regulations**

- Contains no REACH substances with Annex XVII restrictions
- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances

15.1.2. **National regulations**

**Germany**

- **VwVwS Annex reference**: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

**Netherlands**

- **SZW-list van kankerverwekkende stoffen**: Polysulphides, di-tert-Bu is listed
- **SZW-list van mutagene stoffen**: Polysulphides, di-tert-Bu is listed
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding**: Polysulphides, di-tert-Bu is listed
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid**: Polysulphides, di-tert-Bu is listed
None of the components are listed according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.
15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed Item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
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<tr>
<td>2.2</td>
<td>Precautionary statements (CLP)</td>
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<tr>
<td>2.2</td>
<td>EUH-statements</td>
<td>Modified</td>
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<tr>
<td>2.2</td>
<td>Hazard statements (CLP)</td>
<td>Removed</td>
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</tr>
<tr>
<td>3</td>
<td>Composition/information on ingredients</td>
<td>Modified</td>
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</tr>
<tr>
<td>11.1</td>
<td>Reason for no classification</td>
<td>Added</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:

- ACGIH: American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- TLV: Threshold Limit Value
- ASTM: American Society for Testing and Materials
- ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- ICAO: International Civil Aviation Organization
- IATA: International Air Transport Association
- STEL: Short Term Exposure Limit
- LD50: median Lethal Dose for 50% of subjects
- ATE: acute toxicity estimate
- LC50: median Lethal Concentration for 50% of subjects
- EC50: concentration producing 50% effect

Other information: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:

- Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4
- Aquatic Acute 1: Hazardous to the aquatic environment — Acute Hazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment — Chronic Hazard, Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment — Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment — Chronic Hazard, Category 3
- Eye Dam. 1: Serious eye damage/eye irritation, Category 1
- Skin Corr. 1B: Skin corrosion/irritation, Category 1B
- Skin Sens. 1: Sensitisation — Skin, Category 1
- Skin Sens. 1B: Sensitisation — Skin, category 1B
- STOT RE 1: Specific target organ toxicity — Repeated exposure, Category 1
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
<table>
<thead>
<tr>
<th>H317</th>
<th>May cause an allergic skin reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
</tbody>
</table>

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
85W140 GL-5
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>EUH208</td>
<td>Contains . May produce an allergic reaction</td>
</tr>
<tr>
<td>EUH210</td>
<td>Safety data sheet available on request</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.