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

1.1. Product identifier
Product form: Mixture
Product name: 20W50 CF-4/SG
Product code: 401534
Product group: Motor Oils

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
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: vsac.contact.mailbox@valeo.com

1.4. Emergency telephone number
Emergency Number / Poison Center: +33 1 49 45 32 32 (business 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 Calcium long chain alkarylsulphonate(722503-69-7). Calcium long chain alkarylsulphonate(722503-68-6). 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. Substances
Not applicable

3.2. Mixtures
Comments: The mineral oils in the product contain < 3% DMSO 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>Calcium long chain alkarylsulphonate</td>
<td>(CAS-No.) 722503-69-7</td>
<td>0,1 - 0,99</td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td>Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts</td>
<td>(CAS-No.) 68784-31-6 (EC-No.) 272-238-5 (REACH-no) 01-2119657973-23</td>
<td>0,1 - 0,99</td>
<td>Eye Dam. 1, H318 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Calcium long chain alkarylsulphonate</td>
<td>(CAS-No.) 722503-68-6</td>
<td>0,1 - 0,99</td>
<td>Skin Sens. 1, H317</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/effects after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects 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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available
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.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Oily liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow-brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °C @ ASTM D92</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>893 kg/m³ @15°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble, the product remains on the water surface.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>170 mm²/s @ 40°C</td>
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<tr>
<td>Viscosity, dynamic</td>
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<tr>
<td>Explosive properties</td>
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</tr>
<tr>
<td>Oxidising properties</td>
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</tr>
<tr>
<td>Explosive limits</td>
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</tbody>
</table>

9.2. Other information

No additional information available
20W50 CF-4/SG
Safety Data Sheet
generated according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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
Strong oxidizers, acids, Bases.
10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

20W50 CF-4/SG
Viscosity, kinematic 170 mm²/s @ 40°C

SECTION 12: Ecological information
12.1. Toxicity
Ecology - general : Based on available data, the classification criteria are not met.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability
20W50 CF-4/SG
Persistence and degradability Not soluble in water, so only minimally biodegradable.

12.3. Bioaccumulative potential
No additional information available

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
### 20W50 CF-4/SG Safety Data Sheet


<table>
<thead>
<tr>
<th>UN-No. (IATA)</th>
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<tr>
<td>UN-No. (ADN)</td>
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<tr>
<td>UN-No. (RID)</td>
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**14.2. UN proper shipping name**

<table>
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<tr>
<th>Proper Shipping Name (ADR)</th>
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<tbody>
<tr>
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<tr>
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</tr>
<tr>
<td>Proper Shipping Name (RID)</td>
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**14.3. Transport hazard class(es)**

<table>
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<th>ADR</th>
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<td>Transport hazard class(es) (ADN)</td>
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<tr>
<td>RID</td>
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</table>

**14.4. Packing group**

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<thead>
<tr>
<th>Packing group (ADR)</th>
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<tr>
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<tr>
<td>Packing group (IATA)</td>
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</tr>
<tr>
<td>Packing group (ADN)</td>
<td>: Not applicable</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>: Not applicable</td>
</tr>
</tbody>
</table>

**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
15.1. 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
Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts is listed
SZW-lijst van mutagene stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier
20W50 CF-4/SG
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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></td>
<td>Comments (on top of composition)</td>
<td>Added</td>
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<tr>
<td></td>
<td>Revision date</td>
<td>Modified</td>
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<tr>
<td></td>
<td>Supersedes</td>
<td>Modified</td>
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<tr>
<td>3</td>
<td>Composition/information on ingredients</td>
<td>Modified</td>
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</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:

Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Skin Sens. 1 Skin sensitisation, Category 1
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains Calcium long chain alkarylsulphonate(722503-69-7), Calcium long chain alkarylsulphonate(722503-68-6). May produce an allergic reaction.
EUH210 Safety data sheet available on request.
20W50 CF-4/SG
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.