1. Identification of the substance/preparation and company/undertaking

Product name: Castrol LSX 90 GL5
SDS no.: SSA0171
Product use: Gear lubricant
Supplier: Castrol South Africa
61 St George's Mall
Cape Town 8001
South Africa
+27 (021) 408 2911
EMERGENCY TELEPHONE NUMBER: +27 0860 222 133

2. Composition/information on ingredients

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS no.</th>
<th>%</th>
<th>EINECS / ELINCS</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olefin sulphide</td>
<td>proprietary</td>
<td>1 - 5</td>
<td>R53</td>
<td></td>
</tr>
<tr>
<td>long chain alkylamine salt of alkyl phosphoric acid</td>
<td>proprietary</td>
<td>1 - 5</td>
<td>R53</td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid esters, amine salt</td>
<td>proprietary</td>
<td>1 - 5</td>
<td>N; R51/53</td>
<td></td>
</tr>
</tbody>
</table>

See section 16 for the full text of the R-phrases declared above
Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Physical/chemical hazards: Not classified as dangerous.
Human health hazards: Not classified as dangerous.
Environmental hazards: Unlikely to be harmful to aquatic organisms.

Effects and symptoms

- Eyes: No significant health hazards identified.
- Skin: No significant health hazards identified.
- Inhalation: No significant health hazards identified.
- Ingestion: No significant health hazards identified.

4. First-aid measures

Eye contact: In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Notes to physician: Treatment should in general be symptomatic and directed to relieving any effects.
5. Fire-fighting measures

Extinguishing media
Suitable
In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Not suitable
Do not use water jet.

Hazardous decomposition products
These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), phosphates.

Unusual fire/explosion hazards
None identified.

Special fire-fighting procedures
None identified.

Protection of fire-fighters
Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions
Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").

Environmental precautions and clean-up methods
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal protection in case of a large spill

7. Handling and storage

Handling
Wash thoroughly after handling.

Storage
Keep container tightly closed. Keep container in a cool, well-ventilated area.

Not suitable
Prolonged exposure to elevated temperature

8. Exposure controls/personal protection

Occupational exposure limits
This product does not have any assigned OELs.

Control Measures
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protective equipment

Respiratory system
None required; however, use of adequate ventilation is good industrial practice.

Skin and body
None required; however, use of protective clothing is good industrial practice.

Hands
None required; however, use of gloves is good industrial practice.

Eyes
Safety glasses with side shields.

9. Physical and chemical properties

Pour point
< -18 °C

Viscosity Index
102

Colour
Amber.

Odour
Oily.

Physical state
Liquid.

Density
902 kg/m³ (0.902 g/cm³)

Solubility
Insoluble in water.

LogKow
The product is more soluble in octanol; log(octanol/water) >3

Viscosity
Kinematic: 163.8 mm²/s (163.8 cSt) at 40°C
Kinematic: 16 mm²/s (16 cSt) at 100°C

Product name: Castrol LSX 90 GL5

Product code: SSA0171-ZA01

Version 1

Date of issue: 7 November 2005

Format: South Africa

Language: ENGLISH

Build 7.1.6 (South Africa) ( ENGLISH )
10. Stability and reactivity

| Incompatibility with various substances | Reactive with oxidising agents. |
| Hazardous polymerisation               | Will not occur.                  |

11. Toxicological information

**Acute toxicity**

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

**Chronic toxicity**

**Carcinogenic effects**

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12. Ecological information

**Persistence/degradability**

Inherently biodegradable.

**Mobility**

Spillages may penetrate the soil causing ground water contamination.

**Bioaccumulative potential**

This product is not expected to bioaccumulate through food chains in the environment.

**Environmental hazards**

Unlikely to be harmful to aquatic organisms.

**Other ecological information**

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. Disposal considerations

**Disposal Consideration / Waste information**

Where possible, arrange for product to be recycled.

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

14. Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

15. Regulatory information

**Label requirements**

**Risk phrases**

This product is not classified according to the EU regulations.

**EU regulations**

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

**Other regulations**

**Inventories**

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.
16. Other information

Full text of R-phrases referred to in sections 2 and 3
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53- May cause long-term adverse effects in the aquatic environment.

History

Date of previous issue
No Previous Validation.

Prepared by
Product Stewardship Group

Notice to reader
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The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

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