



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

<b>Product name</b>	<b>Castrol Spheerol EPL 1</b>
<b>SDS #</b>	451355
<b>Product Use</b>	Grease for industrial applications For specific application advice see appropriate Technical Data Sheet or consult your Castrol representative.
<b>Supplier</b>	Castrol (UK) Ltd. Witan Gate House 500-600 Witan Gate Central Milton Keynes MK9 1ES United Kingdom
<b>EMERGENCY TELEPHONE NUMBER</b>	Carechem: +44 (0) 208 762 8322 (24 hours)

## 2. Composition/information on ingredients

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

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
phosphorodithioc acid, O,O - di- C1-14- alkyl esters zinc salts	68649-42-3	1 - 5	272-028-3	Xi; R38, 41 N; R51/53

See Section 16 for the full text of the R Phrases declared above

\* Occupational Exposure Limit(s), 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.

<b>Physical/chemical Hazards</b>	Not classified as dangerous.
<b>Human health hazards</b>	Not classified as dangerous.
<b>Environmental hazards</b>	Not classified as dangerous
<b>Effects and symptoms</b>	
<b>Eyes</b>	No significant health hazards identified.  Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Medical Advice' under First-Aid Measures, Section 4 of this Safety Data Sheet.
<b>Skin</b>	No significant health hazards identified.
<b>Inhalation</b>	No significant health hazards identified.
<b>Ingestion</b>	No significant health hazards identified.

## 4. First-aid measures

<b>Eye Contact</b>	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin contact</b>	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.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<b>Ingestion</b>	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.
<b>Notes to physician</b>	Treatment should in general be symptomatic and directed to relieving any effects.  Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

## 5. Fire-fighting measures

### Extinguishing Media

<b>Suitable</b>	Use foam or all-purpose dry chemicals to extinguish. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Not Suitable</b>	Do not use water jet.
<b>Unusual fire/explosion Hazards</b>	None identified.
<b>Special fire-fighting procedures</b>	None identified.
<b>Protection of fire-fighters</b>	Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

<b>Personal Precautions</b>	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
<b>Environmental precautions and cleanup methods</b>	If emergency personnel are unavailable, contain spilled material. Contain and absorb using earth, sand or other inert material. Place spilled material in an appropriate container for disposal. See Section 13 for Waste Disposal Information.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves.

## 7. Handling and storage

<b>Handling</b>	Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure controls/personal protection

<b>Occupational Exposure Limits</b>	None assigned.
<b>Control Measures</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Hygiene measures</b>	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
<b>Personal protective equipment</b>	
<b>Respiratory system</b>	None required; however, use of adequate ventilation is good industrial practice.
<b>Skin and body</b>	None required; however, use of protective clothing is good industrial practice.
<b>Hands</b>	None required; however, use of gloves is good industrial practice.
<b>Eyes</b>	Safety glasses with side shields.

## 9. Physical and chemical properties

<b>Autoignition temperature</b>	>250 °C
<b>Flash point</b>	>200 °C (CLOSED CUP)
<b>Colour</b>	Brown.
<b>Odour</b>	Mild
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Grease
<b>Boiling point / range</b>	>250 °C
<b>Melting point / range</b>	170 °C
<b>Density</b>	<1000 kg/m <sup>3</sup> (<1 g/cm <sup>3</sup> ) at 20°C
<b>Solubility</b>	insoluble in water.

## 10. Stability and reactivity

<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological information

<b>Acute toxicity</b>	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.
<b>Chronic toxicity</b> <b>Carcinogenic effects</b>	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

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## 12. Ecological information

<b>Persistence/degradability</b>	Inherently biodegradable
<b>Mobility</b>	Spillages are unlikely to penetrate the soil. If released to water the product will sink.
<b>Bioaccumulative potential</b>	This product is not expected to bioaccumulate through food chains in the environment.
<b>Environmental hazards</b>	Not classified as dangerous
<b>Other Ecological Information</b>	Spillages are unlikely to penetrate the soil.

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## 13. Disposal considerations

<b>Disposal Consideration / Waste information</b>	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
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## 14. Transport information

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

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## 15. Regulatory information

### Label Requirements

<b>Risk Phrases</b>	This product is not classified according to the EU regulations.
<b>EU Regulations</b>	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

### Other Regulations

<b>Inventories</b>	AUSTRALIAN INVENTORY (AICS): In compliance.  CANADA INVENTORY (DSL): Not listed.  CHINA INVENTORY (IECS): In compliance.  EC INVENTORY (EINECS): In compliance.  JAPAN INVENTORY (ENCS): Not listed.  KOREA INVENTORY (ECL): In compliance.  PHILIPPINE INVENTORY (PICCS): In compliance.  US INVENTORY (TSCA): In compliance.
<b>Additional Warning Phrases</b>	Safety data sheet available for professional user on request.

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## 16. Other information

<b>Full text of R-phrases appearing in section 2</b>	R38- Irritating to skin. R41- Risk of serious damage to eyes. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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### HISTORY

<b>Date of issue</b>	23/07/2003.
<b>Date of previous issue</b>	23/07/2003.
<b>Prepared by</b>	Product Stewardship Group

### Notice to Reader

<b>Product Name</b> Castrol Spheerol EPL 1	<b>Product Code</b> 451355-GB10	<b>Page:</b> 3/4	
<b>Version 1</b>	<b>Date of issue</b> 23 July 2003	<b>Format United Kingdom (UK)</b>	<b>Language</b>
		( BUILD 5.1.2 )	( ENGLISH )

*The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.*

*If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.*

*If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.*

*Further copies of this Safety Data Sheet may be obtained from Castrol International.*

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