

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

Product name	<b>Spheerol L-EP 2</b>
SDS #	453699
Product use	Grease for industrial applications For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Castrol (UK) Ltd. Witan Gate House 500-600 Witan Gate Central Milton Keynes MK9 1ES United Kingdom
EMERGENCY TELEPHONE NUMBER	+44 (0) 1908 853000

## 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

The 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.
	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.
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.

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	
Suitable	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.
Not Suitable	Do not use water jet.
Unusual fire/explosion Hazards	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 (Section 8). Follow all fire fighting procedures (Section 5).
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Place spilled material in an appropriate container for disposal. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves.

7 . Handling and storage

Handling	Wash thoroughly after handling. Avoid strong oxidizers.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

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. Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
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

Flash point	>200 °C (Open cup) Cleveland.
Colour	Amber.
Odour	Oily (Slight.)
Odor threshold	Not available.
Physical state	Grease
Density	1000 kg/m³ (1 g/cm³) at 15°C
Solubility	insoluble in water.
Viscosity	Kinematic: >150 mm²/s (>150 cSt) at 40°C

10 . Stability and reactivity

Incompatibility with various substances	Reactive with oxidising agents.
Hazardous polymerization	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 it 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 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 are unlikely to penetrate the soil.
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	Spillages are unlikely to penetrate the soil.

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.
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14 . Transport information

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

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 directives1999/45/EC and 67/548/EEC as amended and adapted.
Other regulations	
Inventories	AUSTRALIAN INVENTORY (AICS): Not determined
	CANADA INVENTORY (DSL): Not determined.
	CHINA INVENTORY (IECS): Not determined.
	EC INVENTORY (EINECS/ELINCS): In compliance.
	JAPAN INVENTORY (ENCS): Not determined.
	KOREA INVENTORY (ECL): Not determined.
	PHILIPPINE INVENTORY (PICCS): Not determined.
	US INVENTORY (TSCA): Not determined.
Additional warning phrases	Safety data sheet available for professional user on request.

16 . Other information

Full text of R-phrases appearing in section 2 :	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.
History	
Date of issue	19/12/2003.
Date of previous issue	No Previous Validation.
Prepared by	Product Stewardship Group
Notice to reader	

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			Build 6.2.2		( 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.