

SAFETY DATA SHEET



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

Product name Energrease LS-EP 2
SDS # 401946
Product Use Grease for industrial applications
For specific application advice see appropriate Technical Data Sheet or consult your BP representative
Supplier BP Lubricants 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 - 10	272-028-3	Xi; R41 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 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	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Effects and symptoms	
Eyes	No significant health hazards identified.
Skin	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.
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.

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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. This material is harmful to aquatic organisms. 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.

Hazardous decomposition products

These products are carbon oxides (CO, CO₂), phosphates. Some metallic oxides.

Unusual fire/explosion Hazards

This material is not explosive as defined by established regulatory criteria.

Special fire-fighting procedures

None identified.

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 cleanup 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

Splash goggles. Full suit. Boots. Gloves.

7. Handling and storage**Handling**

Avoid contact of spilled material and runoff with soil and surface waterways.

Storage

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

8. Exposure controls/personal protection**Occupational Exposure Limits**

None assigned.

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**

Use with adequate ventilation.

Skin and body

Avoid contact with skin. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Hands

Wear gloves that cannot be penetrated by chemicals or oil.

Eyes

Safety glasses with side shields.

9. Physical and chemical properties**Flash point**

>200 °C (OPEN CUP) Cleveland.

Colour

Brown. (Light.)

Odour

Oily (Slight.)

Odour threshold

Not available.

Physical state

Liquid.

Density

1 g/cm³ at 15 °C

Solubility	insoluble in water.
Viscosity	kinematic at 40°C: <150 cSt

10. Stability and reactivity

Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Polymerization	Will not occur.

11. Toxicological information

Acute toxicity	<p>Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.</p> <p>Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.</p> <p>Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.</p> <p>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.</p>
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. If released to water the product will sink.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Environmental hazards	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
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. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.
Hazardous Waste	The classification of the product may meet the criteria for a hazardous waste

14. Transport information

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

15. Regulatory information

Label Requirements	
Risk Phrases	R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
Restrictions to product use	Classification and labeling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted. - Industrial applications.
Other Regulations	
Inventories	<p>AUSTRALIAN INVENTORY (AICS): Listed on inventory.</p> <p>CANADA INVENTORY (DSL): Listed on inventory.</p> <p>CHINA INVENTORY (IECS): Not determined.</p> <p>EC INVENTORY (EINECS): Listed on inventory.</p> <p>JAPAN INVENTORY (ENCS): Not determined.</p>

KOREA INVENTORY (ECL): Listed on inventory.

PHILIPPINE INVENTORY (PICCS): Listed on inventory.

US INVENTORY (TSCA): Listed on inventory.

16. Other information

Full text of R-phrases appearing in section 2

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

13/07/2002.

Date of previous issue

No Previous Validation.

Prepared by

Product Stewardship Group

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