SAFETY DATA SHEET



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

Product name Energrease LCX 6002

SDS no. 454780

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Supplier Castrol (U.K.) Limited

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EMERGENCY TELEPHONE

NUMBER

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2. Composition/information on ingredients

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

Chemical name CAS no. % EINECS / ELINCS. Classification

Zinc alkyl dithiophosphate 68649-42-3 1 - 5
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 Inlikely to be harmful to aquatic organisms.

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.

InhalationNo significant health hazards identified.IngestionNo 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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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. These products are **Hazardous decomposition** carbon oxides products

nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides

Special fire-fighting

Protection of fire-fighters

procedures

Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout

gear.

None identified.

Accidental release measures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective **Personal precautions**

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.

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

Wash thoroughly after handling. **Handling**

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

Not suitable Prolonged exposure to elevated temperature

Exposure controls/personal protection 8.

Ingredient name Occupational exposure limits

EH40-WEL (United Kingdom (UK), 1/2005). calcium carbonate (limestone)

WEL 8 hrs limit: 10 mg/m³ 8 hour(s). Form: Inhalable fraction WEL 8 hrs limit: 4 mg/m³ 8 hour(s). Form: Respirable fraction

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Control Measures

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

All chemicals should be assessed for their risks to health and appropriate control measures put in place to prevent or adequately control exposure. A hierarchy of control measures exists (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. Relevant information can be obtained from the European Committee for Standardisation http://www.cenorm.be/cenorm/index.htm.

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Hygiene measures

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

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

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

Skin and body

Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Hands

Eyes

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves.

Recommended: nitrile gloves.

Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

Safety glasses with side shields.

9. Physical and chemical properties

Flash point 180 °C (Closed cup) Pensky-Martens.

Colour

Odour

Physical state

Grease

Density 950 kg/m³ (0.95 g/cm³) at 20°C

Solubility Insoluble in water.

LogK_{ow}

10. Stability and reactivity

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous polymerisation
Hazardous decomposition
products

These products are carbon oxides nitrogen oxides sulfur oxides

Will not occur.

nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides

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

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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

mherently biodegradable. Persistence/degradability

Mobility Nonvolatile. Solid. Insoluble in water

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

Environmental hazards Inlikely to be harmful to aquatic organisms.

Inlikely to cause long term effects in the aquatic environment. Other ecological information

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 WUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): Not determined.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): Not determined.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

INVENTORY (TSCA): In compliance.

Additional warning

phrases

ontains zinc dinonylnaphthalene sulphonate/carboxylate complex May produce an allergic reaction.

Safety data sheet available for professional user on request.

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16. Other information

Full text of R-phrases referred to in sections 2 and 3

F51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of issue 09/02/2007. 05/01/2004. Date of previous issue

Product Stewardship Group Prepared by

Notice to reader

Fevision Indicator: The presence of a triangle in the upper left corner of a field indicates a change since the previous version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

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.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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