

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

| | |
|-----------------------------------|---|
| Product name | Castrol CRB 40 |
| SDS # | 453056 |
| Product use | Diesel engine oil. For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
| Supplier | Castrol (UK) Ltd Wakefield House Pipers Way Swindon Wiltshire SN3 1RE |
| EMERGENCY TELEPHONE NUMBER | Carechem: +44 (0) 208 762 8322 (24 hours) |

2. Composition/information on ingredients

Highly refined mineral oil (IP 346 DMSO extract < 3%). 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.

| | |
|----------------------------------|--|
| 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. |
| | USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer. See Toxicological Information, section 11 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. |
| Notes to physician | Treatment should in general be symptomatic and directed to relieving any effects. |

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5 . Fire-fighting measures

Extinguishing Media

Suitable In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray.

Not Suitable Do not use water jet.

Hazardous decomposition products These products are carbon oxides (CO, CO₂).

Unusual fire/explosion Hazards None.

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 (Section 8). Follow all fire fighting procedures (Section 5).

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 Splash goggles. Full suit. Boots. Gloves.

7 . Handling and storage

Handling Wash thoroughly after handling.

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 244 °C (Open cup) Cleveland.

Colour Amber.

Odour Mild

Odor threshold Not available.

Physical state Liquid.

Density 896 kg/m³ (0.896 g/cm³) at 20°C

Solubility insoluble in water.

Viscosity Kinematic: 146 mm²/s (146 cSt) at 40°C
Kinematic: 14.5 mm²/s (14.5 cSt) at 100°C

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10 . Stability and reactivity

| | |
|--|---------------------------------|
| Incompatibility with various substances | Reactive with oxidising 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>USED ENGINE OILS Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.</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 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

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|---|---|
| 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, 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 directives 1999/45/EC and 67/548/EEC as amended and adapted. |
| Other regulations | |
| Inventories | AUSTRALIAN INVENTORY (AICS): In compliance. 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. |

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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

07/01/2004.

Date of previous issue

No Previous Validation.

Prepared by

Product Stewardship Group

Notice to reader

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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