

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

<b>Product name</b>	<b>Castrol R40</b>
<b>SDS #</b>	450507
<b>Product Use</b>	Automotive engine crankcase lubricant For specific application advice see appropriate Technical Data Sheet or consult your Castrol representative.
<b>Supplier</b>	Castrol (UK) Ltd Wakefield House Pipers Way Swindon Wiltshire SN3 1RE
<b>EMERGENCY TELEPHONE NUMBER</b>	+44 (0) 1793 512712

## 2. Composition/information on ingredients

Vegetable oil. Highly refined mineral oil. Synthetic base stock  
Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
n-phenyl-1-naphthylamine	90-30-2	1 - 5	201-983-0	R43 N; R50/53
Triphenyl phosphite	101-02-0	1 - 5	202-908-4	Xi; R36/38 N; R50/53

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.

<b>Physical/chemical Hazards</b>	Not classified as dangerous.
<b>Human health hazards</b>	Product not classified for Skin Sensitisation. Based on data available for this or related materials.
<b>Environmental hazards</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Product not classified for Toxic to aquatic organisms. Based on data available for this or related materials.
<b>Effects and symptoms</b>	
<b>Eyes</b>	No significant health hazards identified.
<b>Skin</b>	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.
<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>	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
<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.

## 5. Fire-fighting measures

<b>Extinguishing Media</b>	
<b>Suitable</b>	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 a waterway, sewer or drain
<b>Not Suitable</b>	Do not use water jet.
<b>Hazardous decomposition products</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...), phosphates.

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<b>Unusual fire/explosion Hazards</b>	None.
<b>Special fire-fighting procedures</b>	None identified. Fire fighting, or emergency, planned entry into unknown concentrations, or IDLH conditions, requires the use of a self contained breathing apparatus with a full face piece and pressure-demand or other positive-pressure mode.

## 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. 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.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves.

## 7. Handling and storage

<b>Handling</b>	Do not get on skin or clothing. Avoid contact of spilled material and runoff with soil and surface waterways. 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>	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.
<b>Hygiene measures</b>	Wash hands, forearms, and face thoroughly 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>	Do not get on skin or clothing. Wear suitable protective clothing.
<b>Hands</b>	Wear suitable gloves.
<b>Eyes</b>	Safety glasses with side shields.

## 9. Physical and chemical properties

<b>Autoignition temperature</b>	>250 °C
<b>Flash point</b>	230 °C (CLOSED CUP)
<b>Pour Point</b>	-33 °C
<b>Colour</b>	Amber.
<b>Odour</b>	Mild
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Density</b>	956 kg/m <sup>3</sup> (1 g/cm <sup>3</sup> ) at 20°C
<b>Solubility</b>	insoluble in water.
<b>Viscosity</b>	kinematic: 142 mm <sup>2</sup> /s (142 cSt) at 40°C kinematic: 14.7 mm <sup>2</sup> /s (14.7 cSt) at 100°C

## 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. Product not classified for sensitisation. Based on data available for this or related materials.  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
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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.

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.

#### 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).

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## 12. Ecological information

<b>Persistence/degradability</b>	Inherently biodegradable
<b>Mobility</b>	Spillages may penetrate the soil causing ground water contamination.
<b>Bioaccumulative potential</b>	This product is not expected to bioaccumulate through food chains in the environment.
<b>Environmental hazards</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Product not classified for Toxic to aquatic organisms. Based on data available for this or related materials.
<b>Other Ecological Information</b>	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

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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. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.
<b>Hazardous Waste</b>	The classification of the product may meet the criteria for a hazardous waste

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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>	R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Safety Phrases</b>	S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
<b>Restrictions to product use</b>	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted. - Consumer applications.

#### Other Regulations

<b>Inventories</b>	AUSTRALIAN INVENTORY (AICS): In compliance CANADA INVENTORY (DSL): In compliance. CHINA INVENTORY (IECS): In compliance. EC INVENTORY (EINECS): In compliance. JAPAN INVENTORY (ENCS): Not determined. KOREA INVENTORY (ECL): In compliance. PHILIPPINE INVENTORY (PICCS): In compliance. US INVENTORY (TSCA): In compliance.
<b>Additional Warning Phrases</b>	Contains n-phenyl-1-naphthylamine. May produce an allergic reaction.

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## 16. Other information

<b>Full text of R-phrases appearing in section 2</b>	R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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#### HISTORY

<b>Date of issue</b>	15/05/2003.
<b>Date of previous issue</b>	12/05/2003.
<b>Prepared by</b>	Product Stewardship Group

#### Notice to Reader

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*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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