

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

<b>Product name</b>	<b>Castrol Hyspin AWH-M 32</b>
<b>SDS #</b>	456562
<b>Product Use</b>	Hydraulic fluid For specific application advice see appropriate Technical Data Sheet or consult your Castrol representative.
<b>Supplier</b>	Castrol (UK) Ltd. Witan Gate House 500-600 Witan Gate Central Milton Keynes MK9 1ES United Kingdom
<b>EMERGENCY TELEPHONE NUMBER</b>	+44 (0) 1908 853000

## 2. Composition/information on ingredients

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

This product does not contain any hazardous ingredients at or above regulated thresholds.

## 3. Hazards identification

This preparation is not 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>	Not classified as dangerous.
<b>Environmental hazards</b>	Unlikely to be harmful to aquatic organisms.
<b>Effects and symptoms</b>	
<b>Eyes</b>	No significant health hazards identified.
<b>Skin</b>	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.
<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>	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.
<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.

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	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 identified.
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	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	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	204 °C (OPEN CUP)
Pour Point	-39 °C
Colour	Amber.
Odour	Mild
Odour threshold	Not available.
Physical state	Liquid.
Density	876 kg/m <sup>3</sup> (0.9 g/cm <sup>3</sup> ) at 15°C
Solubility	insoluble in water.
Viscosity	kinematic: 32 mm <sup>2</sup> /s (32 cSt) at 40°C kinematic: 6.3 mm <sup>2</sup> /s (6.3 cSt) at 100°C

## 10. Stability and reactivity

Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Polymerization	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.  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.
<b>Chronic toxicity</b> <b>Carcinogenic effects</b>	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>	Unlikely to be harmful to aquatic organisms.
<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.
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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

<b>Label Requirements</b>	
<b>Risk Phrases</b>	This product is not classified according to the EU regulations.
<b>EU Regulations</b>	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.
<b>Other Regulations</b>	
<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): In compliance.  KOREA INVENTORY (ECL): In compliance.  PHILIPPINE INVENTORY (PICCS): In compliance.  US INVENTORY (TSCA): In compliance.

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## 16. Other information

### HISTORY

<b>Date of issue</b>	04/07/2003.
<b>Date of previous issue</b>	28/05/2003.
<b>Prepared by</b>	Product Stewardship Group

### Notice to Reader

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<b>Product Name</b> Castrol Hyspin AWH-M 32	<b>Product Code</b> 456562-GB01	<b>Page:</b> 3/4	
<b>Version 2</b>	<b>Date of issue</b> 4 July 2003	<b>Format United Kingdom (UK)</b>	<b>Language</b>
	( BUILD 5.1.2 )		( 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.*

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**Page:** 4/4

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