



Castrol (U.K.) Limited

The Leading Lubrication Specialist



SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **Hyspin AWS 100** Code: **6021-UK**
Application: Hydraulic systems
Company: **Castrol (U.K.) Limited**
Address: Burmah Castrol House, Pipers Way, Swindon, Wiltshire, SN3 1RE
Telephone (24 hours): **01793 512712** Fax: 01793 491442

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Highly refined mineral oil and additives

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
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This product contains ingredients classified as hazardous. However, they are NOT present in sufficient quantities to warrant classifying the product as hazardous

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of Notified Chemical Substances) or are exempt.
Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

This product is NOT classified as hazardous

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes
Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible
Inhalation: Remove from exposure
Ingestion: Obtain medical attention. Do NOT induce vomiting.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets
Special Exposure Hazards: None
Special Protective Equipment: None

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilt product presents a significant slip hazard
Environmental Precautions: Prevent entry into drains, sewers and water courses
Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means

7: HANDLING AND STORAGE

Handling: When used in high pressure systems, leakage may result in mist formation so presenting a hazard
To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. It is essential to maintain a high standard of personal hygiene

Storage: No special precautions

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

Substance	8 Hr. TWA	STEL	Source/Other Information
Mineral oil (see Oil mist, mineral)	5mg/m ³	10mg/m ³	EH40 (OES)

Engineering Control Measures: Mechanical methods to minimise exposure must take precedence over personal protective measures

Personal Protective Equipment: Avoid skin and eye contact. Wear impervious gloves (eg of PVC), in case of repeated or prolonged contact. Change contaminated clothing and clean before re-use

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Amber
Odour:	Mild
Boiling Point/Range (°C):	Above 250
Pour Point: (°C):	Below minus 21
Kinematic Viscosity @ 40°C (cSt):	100
Flash Point (closed, °C):	Above 170
Autoignition (°C):	Above 250
Explosive Properties (%):	Not determined
Relative Density (at 20°C):	Below 1.0
Water Solubility:	Insoluble
Fat Solubility:	Not determined

10: STABILITY AND REACTIVITY

Stability:	Stable, will not polymerise
Conditions to Avoid:	Temperatures (°C) above 90
Materials to Avoid:	Strong oxidising agents
Hazardous Decomposition Products:	None

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components
Expected oral LD₅₀, rat > 2g/kg

Health Effects

On Eyes: May cause transient irritation

On Skin: Unlikely to cause harm on brief or occasional contact

By Inhalation: Mist and vapours may cause irritation to nose and respiratory tract

By Ingestion: May cause nausea, vomiting and diarrhoea.

Chronic: Repeated and prolonged skin contact may lead to skin disorders

Other: None known

12: ECOLOGICAL INFORMATION

Environmental Assessment: When used and disposed of as intended, no adverse environmental effects are foreseen

Mobility: Mobile liquid. Insoluble in water. Non-volatile.

Persistence and Degradability: Inherently biodegradable

Bioaccumulative Potential: Bioaccumulative based on logP values of constituents

Ecotoxicity: Not expected to be toxic to aquatic organisms
Not expected to be inhibitory to sewage bacteria

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: May be sent for reclamation

Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site
May be incinerated

Packaging: Must be disposed of through an authorised waste contractor
May be steam cleaned and recycled

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport

15: REGULATORY INFORMATION

This product is NOT classified as dangerous for supply in the UK

Hazard Label Data:-

EC Directives: Waste Oil Directive, 87/101/EEC
Framework Waste Directive, 91/156/EEC

Statutory Instruments: Health & Safety at Work, etc. Act 1974
Consumer Protection Act 1987
Environmental Protection Act 1990

Codes of Practice: Waste Management. The Duty of Care

Guidance Notes: Occupational exposure limits (EH 40)
Carcinogenicity of mineral oils (EH 58)
Skin cancer caused by oil [MS(B)5]
Save your skin! - Occupational Contact Dermatitis [MS(B)6]
Dermatitis - cautionary notice [SHW 367]
Effects of mineral oil on the skin [SHW 397]

The above publications are available from HMSO or HSE

16: OTHER INFORMATION

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 (U.K.) Limited.