## **SAFETY DATA SHEET**



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	Hyspin AWH-M 32
Product code	456562-BE02
SDS #	456562
Product registration number	314799
Product type	Liquid.
1.2 Relevant identified uses of	of the substance or mixture and uses advised against
Use of the substance/	Hydraulic fluid.
mixture	For specific application advice see appropriate Technical Data Sheet or consult our company representative.
1.3 Details of the supplier of	the safety data sheet
Supplier	Lubricants UK Limited, Chertsey Road, Sunbury On Thames, Middlesex, TW16 7BP
	+44 (0)345 600 8125
E-mail address	MSDSadvice@bp.com
1.4 Emergency telephone nu	mber
EMERGENCY	Carechem: +44 (0) 1235 239 670 (24/7)
TELEPHONE NUMBER	Calechem. $+44(0)$ 1255 255 070 (2477)
<b>SECTION 2: Hazards</b>	idantification
2.1 Classification of the subst	ance or mixture
Product definition	Mixture
Not classified.	
See sections 11 and 12 for mo	ore detailed information on health effects and symptoms and environmental hazards.
2.2 Label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	Not applicable.
Supplemental label elements	Safety data sheet available on request.
2.3 Other hazards	
Other hazards which do not result in classification	Defatting to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.
Product name Hyspin AWH-M	32 Product code 456562-BE02 Page: 1/9
	-
Version 4 Date of issue	20 February 2024 Format South Africa Language ENGLISH

(South Africa)

10 March 2023.

Date of previous issue

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

**Product definition** 

### Mixture

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Øistillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≥10 - ≤25	Asp. Tox. 1, H304	-	[1]

#### See Section 16 for the full text of the H statements declared above.

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. 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 occur.
Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical atter symptoms occur.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

along tissue planes.

Potential acute health eff	fects
Inhalation	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
Ingestion	No known significant effects or critical hazards.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Eye contact	No known significant effects or critical hazards.
Delayed and immediate e	ffects as well as chronic effects from short and long-term exposure
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
4.3 Indication of any imme	ediate medical attention and special treatment needed
Notes to physician	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 pecrosis.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

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

### 5.2 Special hazards arising from the substance or mixture

Product name Hyspin AWH-M 32			Product code	456562-BE02	Page: 2/9	
Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
Date of previo	ous issue	10 March 2023.		(South Africa)		

SECTION 5: Firefighting measures				
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.			
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)			
5.3 Advice for firefighters				
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.			
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

# SECTION 6: Accidental release measures

6.1 Personal precautions, prote	ctive equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for co	ontainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers.
Not suitable	Prolonged exposure to elevated temperature
7.3 Specific end use(s)	
Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.

ſ	Product name Hyspin AWH-M 32			Product code	456562-BE02	Page: 3/9	
	Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
	Date of previo	ous issue	10 March 2023.		(South Africa)		

SECTION 8: Exposure	controls/personal protection			
8.1 Control parameters				
Occupational exposure limits	No exposure limit value known.			
Product/ingredie	nt name Exposure limit values			
	components may be shown in this section, other components may be present in any mist, fore, the specific OELs may not be applicable to the product as a whole and are provided for			
Recommended monitoring procedures Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedur for the assessment of exposure to chemical and biological agents) European Standard EN 4 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.				
Biological exposure indices Product/ingredient	name Exposure indices			
No exposure indices known.				
Derived No Effect Level No DNELs/DMELs available.				
Predicted No Effect Concentra No PNECs available	<u>ition</u>			
8.2 Exposure controls				
Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. 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.			
Individual protection measure				
Hygiene measures	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. Ensure that eyewash stations and safety showers are close to the workstation location.			
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.			
Eye/face protection	Safety glasses with side shields.			
Skin protection				
Hand protection	tection General Information:			
	Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).			
	Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.			
	Pesammandad: Nitrila davaa			

Recommended: Nitrile gloves. **Breakthrough time:** 

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Product name Hyspin AWH-M 32			Product code 456562-BE02		Page: 4/9	
Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
Date of previo	ous issue	10 March 2023.		(South Africa)		

SECTION 8: Exp	osure controls/	personal	protection
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Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves	
can be obtained.	

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above. It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

**Glove Thickness:** 

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Skin and body Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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. **Refer to standards:** Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149 Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387 **Environmental exposure** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume controls scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Yellow. [Light]
Odour	✓nfragranced
Odour threshold	Not available.
Melting point/freezing point	Not available.

Product name	Hyspin AWH-M	1 32		Product code	456562-BE02	Page: 5/9
Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
Date of previo	ous issue	10 March 2023.		(South Africa)		

# SECTION 9: Physical and chemical properties

Initial boiling point and boiling	Not available.	
range		
Flammability	Not available.	
Lower and upper explosion limit	Not available.	
Flash point	Open cup: >190°C (>	•374°F) [Cleveland ASTM D 92]
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
рН	Not applicable.	
Kinematic viscosity	Kinematic: 32 mm <sup>2</sup> /s	(32 cSt) at 40°C
Solubility		
	Media	Result
	water	Not soluble
Partition coefficient n-octanol/ water (log value)	Not applicable.	
Vapour pressure	<mark>≮</mark> 0.01 kPa	
Density and/or Relative density	<1000 kg/m³ (<1 g/cr	n³) at 15°C
Relative vapour density	Not available.	
Particle characteristics		
Median particle size	Not applicable.	
9.2 Other information		
Evaporation rate	Not available.	
Explosive properties	Not available.	
Oxidising properties	Not available.	
Pour point	-39 °C	
SECTION 10: Stability an	d reactivity	
	o specific test data ava	ilable for this product. Refer to Conditions to avoid and Incompatible

·····,	materials for additional information.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

11.1 Information on hazard c Acute toxicity estimates Not available.	lasses as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation, Eyes.
Potential acute health effect	<u>s</u>
Inhalation	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
Ingestion	No known significant effects or critical hazards.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Eye contact	No known significant effects or critical hazards.
Symptoms related to the ph	vsical, chemical and toxicological characteristics
Inhalation	No specific data.
Ingestion	No specific data.

ſ	Product name	-Iyspin AWH-M	32		Product code 4	56562-BE02	Page: 6/9
	Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
	Date of previo	ous issue	10 March 2023.		(South Africa)		

## **SECTION 11: Toxicological information**

Skin contact	Adverse symptoms may include the following:
	irritation
	dryness
	cracking
Eye contact	No specific data.
Delayed and immediate effec	ts as well as chronic effects from short and long-term exposure
Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
Potential chronic health effect	<u>cts</u>
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

### 11.2 Information on other hazards

11.2.2 Other information

Not available.

## SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards Not classified as dangerous

### 12.2 Persistence and degradability

Expected to be biodegradable.

#### 12.3 Bioaccumulative potential

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

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	Not available.
Mobility	Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
12.7 Other adverse effects	No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment method	8
Product	3
Methods of disposal	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Hazardous waste	Yes.
Packaging	
Methods of disposal	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
References	Commission 2014/955/EU Directive 2008/98/EC
Product name Hyspin AWH-M	32 <b>Product code</b> 456562-BE02 <b>Page: 7/9</b>
Version 4 Date of issue	20 February 2024 Format South Africa Language ENGLISH
Date of previous issue	10 March 2023. (South Africa)

SECTION 14: Transport information					
	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
14.2 UN proper shipping name	-	-	-	-	
14.3 Transport hazard class(es)	-	-	-	-	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	
Additional information	-	-	-	-	

14.6 Special precautions for Not available. user

14.7 Maritime transport in No bulk according to IMO instruments

# Not available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.
All components are active or exempted.
All components are listed or exempted.
At least one component is not listed.
All components are listed or exempted.

15.2 Chemical safety<br/>assessmentA Chemical Safety Assessment has been carried out for one or more of the substances within<br/>this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

## **SECTION 16: Other information**

Abbreviations and acronyms	ADN = European Provisions Inland Waterway ADR = The European Agreet Road ATE = Acute Toxicity Estima BCF = Bioconcentration Fact CAS = Chemical Abstracts S CLP = Classification, Labellir CSA = Chemical Safety Asse CSR = Chemical Safety Rep DMEL = Derived Minimal Effe DNEL = Derived No Effect Lo EINECS = European Invento ES = Exposure Scenario EUH statement = CLP-specifi	ment concerning te ervice ng and Packagin essment ort ect Level evel evel ary of Existing Co	the Internation g Regulation [F mmercial chen	al Carriage of Dange Regulation (EC) No. 1	erous Goods by
Product name Hyspin AWH-M	32		Product code	456562-BE02	Page: 8/9
Version 4 Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
Date of previous issue	10 March 2023.		(South Africa)		

### **SECTION 16: Other information**

	EWC = European Waste Catalogue
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978. ("Marpol" = marine pollution)
	OECD = Organisation for Economic Co-operation and Development
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
	[Regulation (EC) No. 1907/2006]
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	RRN = REACH Registration Number
	SADT = Self-Accelerating Decomposition Temperature
	SVHC = Substances of Very High Concern
	STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
	STOT-SE = Specific Target Organ Toxicity - Single Exposure
	TWA = Time weighted average
	UN = United Nations
	UVCB = Complex hydrocarbon substance
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative
	Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,
	64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN
	01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN
	01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN
	01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN
	01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN
	01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,
	64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 /
	RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN
	01-2119474889-13
tory	

History		
Date of issue/ Date of revision	20/02/2024.	
Date of previous issue	10/03/2023.	
Prepared by	Product Stewardship	
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#### Indicates information that has changed from previously issued version.

#### Notice to reader

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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

ſ	Product name Hyspin AWH-M 32			Product code 456562-BE02		Page: 9/9	
	Version 4	Date of issue	20 February 2024	Format	South Africa	Language	ENGLISH
	Date of previous issue 1		10 March 2023.		(South Africa)		