Conforms to REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS, 2021, Government Gazette 44348

SAFETY DATA SHEET



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

Hyspin AWS 150 456613-DE04
456613 Liquid.
f the substance or mixture and uses advised against
Hydraulic fluid. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
he safety data sheet
BP Southern Africa (Pty)Ltd 199 Oxford Road Oxford Parks Dunkeld, 2196 South Africa
Product Technical Helpdesk: 0800 111 551 MSDSadvice@bp.com

1.4 Emergency telephone number		
EMERGENCY	Tygerberg Poison Centre: 0861 555 777	
TELEPHONE NUMBER	Carechem: +27 21 300 2732 (24/7)	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition Mixture

Not classified.

1.1 Product identifier

assined.

See sections 11 and 12 for more 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	Not applicable.
Special packaging requireme	<u>nts</u>
Containers to be fitted with child-resistant fastenings	Not applicable.
Tactile warning of danger	Not applicable.

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do	Defatting to the skin.
not result in classification	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.

SECTION 3: Composition/information on ingredients

Mixture

3.2 Mixtures

Product definition

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

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

SECTION 4: First aid measures

4.1 Description of first aid me	easures
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 attention if 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 ef	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	effects 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 imm	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 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	

SECTION 5: Firefighting measures

Hazardous combustion products Product name Hyspin AWS 150 Version 2 Date of issue	Combustion products may carbon oxides (CO, CO ₂) 0 14 December 2022	(carbon monoxide,	0		Page: 2/9 ENGLISH
products	carbon oxides (CO, CO ₂)		carbon dioxide		Page: 2/9
			0	÷)	
5.2 Special hazards arising fro Hazards from the substance or mixture	om the substance or mixtur In a fire or if heated, a pre		occur and the	container may burst.	
Unsuitable extinguishing media	Do not use water jet. The burning product.	e use of a water jet i	nay cause the	fire to spread by spla	shing the
media	In case of fire, use foam,	dry chemical or carl	oon dioxide ex	tinguisher or spray.	

SECTION 5: Firefighting measures

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: Accident	al release measures
6.1 Personal precautions, prot	ective 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 containment 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

	inding the second se
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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	No exposure limit value known.
Product/ingredient name	Exposure limit values
Whilst specific OELs for certain components may	be shown in this section, other components may be present in any

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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SECTION 8: Exposure controls/personal protection

Reference should be made to monitoring standards, such as the following: European Standard **Recommended monitoring** procedures 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 procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (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 Concentration No PNECs available 8.2 Exposure controls **Appropriate engineering** Provide exhaust ventilation or other engineering controls to keep the relevant airborne controls 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 measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, **Hygiene measures** 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. In case of insufficient ventilation, wear suitable respiratory equipment. **Respiratory protection** 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 **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. 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: 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.

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SECTION 8: Exposure controls/personal protection

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.

	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.
<u>Refer to standards:</u>	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 controls	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 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

Liquid.
Amber.
Not available.
Not available.
Not applicable.
Not available.
Not available.
-18 °C
Closed cup: >190°C (>374°F) [Pensky-Martens]
Not available.

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SECTION 9: Physical and chemical properties

Flammability (solid, gas)	Not available.							
Lower and upper explosion limit	Not available.							
Vapour pressure		Vapou	apour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	Stillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191				
Relative vapour density	Not available.			-				
Relative density	Not available.							
Density	<1000 kg/m³ (<1 g/	cm³) at 15	5°C					
Solubility(ies)								
Media	Result							
water	Not soluble							
Partition coefficient: n-octanol water	/ Not applicable.							
Auto-ignition temperature	Not available.							
Decomposition temperature	Not available.							
Viscosity	Kinematic: 150 mm Kinematic: 14.6 mn	²/s (150 c n²/s (14.6	St) at 4 cSt) at	0°C 100°C				
Explosive properties	Not available.							
Oxidising properties	Not available.							
Particle characteristics								
Median particle size	Not applicable.							
9.2 Other information								
No additional information.								
SECTION 10: Stability	and reactivity							
10.1 Reactivity	No specific test data av materials for additional			oduct. Refer	to Conc	ditions to	avoid and Incompa	
10.2 Chemical stability	The product is stable.							
10.2 Describility of	Lindor normal condition	a of store	ao ond	use bozarda		tiono will	not occur	

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 b produced.

be

SECTION 11: Toxicological information

11.1 Information on hazard cla	asses as defined in Regulation (EC) I	No 1272	/2008		
Acute toxicity estimates					
Not available.					
Information on likely routes of exposure	Routes of entry anticipated: Dermal,	Inhalatio	on, Eyes.		
Potential acute health effects					
Inhalation	Vapour inhalation under ambient cor pressure.	nditions i	s not normally	a problem due to low	vapour
Ingestion	No known significant effects or critica	al hazaro	ds.		
Skin contact	Defatting to the skin. May cause ski	n drynes	s and irritation		
Eye contact	No known significant effects or critica	al hazaro	ds.		
Symptoms related to the physical	sical, chemical and toxicological cha	aracteris	stics		
Inhalation	No specific data.				
Ingestion	No specific data.				
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SECTION 11: Toxicological information

Skin contact	Adverse symptoms may include the following:
	irritation
	dryness
	cracking
Eye contact	No specific data.
Delayed and immediate effe	ects 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 effe	ects
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	
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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	S				
Product					
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	ous waste Yes.				
Packaging					
Methods of disposal	Where possible, arrange for produ licensed waste disposal contractor				d person/
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 lin may retain some product residues. Avoid dispersal of spilt material and runoff and contac soil, waterways, drains and sewers.					
References	Commission 2014/955/EU Directive 2008/98/EC				
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SECTION 14: Transport information					
	ADR/RID	ADN	IMDG	IATA	
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 Not available. bulk according to IMO instruments

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
assessmentA Chemical Safety Assessment has been carried out for one or more of the substances within
this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information

visions concerning the International Carriage of Dangerous Goods by				
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances				
ario P-specific Hazard statement				
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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
ory	

History	
Date of issue/ Date of revision	14/12/2022.
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Prepared by	Product Stewardship

V 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.

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