



## 1 . Identification of the material and supplier

**Product name** **BP Light Power Station Fuel Oil**  
**SDS no.** 0000002995  
**Historic SDS no.** YSTS1  
**Product use** Fuel.  
**Supplier** BP Australia Pty Ltd (ABN 53 004 085 616)  
 Melbourne Central,  
 360 Elizabeth Street,  
 Melbourne,  
 Victoria 3000,  
 Australia  
 Tel: +61 (03) 9268 4111  
 Fax: +61 (03) 9268 3321  
**EMERGENCY TELEPHONE NUMBER** 1800 638 556  
**Product code** 0000002995

## 2 . Hazards identification

**Statement of hazardous/dangerous nature** HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.  
**Risk phrases** R45- May cause cancer.  
 R20- Also harmful by inhalation.  
 R66- Repeated exposure may cause skin dryness or cracking.  
**Safety phrases** S2- Keep out of the reach of children.  
 S23- Do not breathe gas/fumes/vapour/spray  
 S24- Avoid contact with skin.  
 S36/37- Wear suitable protective clothing and gloves.  
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S53- Avoid exposure - obtain special instructions before use.  
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.  
 S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 3 . Composition/information on ingredients

Ingredient name	CAS no.	%
Fuels, diesel	68334-30-5	99
fuel oil No.6	68553-00-4	1
Contains:		
Polycyclic aromatic hydrocarbons (PAHs)	mixture	0.1 - 1
Naphthalene	91-20-3	0.1 - 1
Hydrogen Sulphide	7783-06-4	<0.001
May also contain small quantities of proprietary performance additives.		

## 4 . First-aid measures

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.  
**Skin contact** In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.  
**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

<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 potentially dangerous quantities of this material have been swallowed, call a physician immediately.
<b>Advice to doctor</b>	Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.
	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

<b>Extinguishing media</b>	
<b>Suitable</b>	In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.
<b>Not suitable</b>	Do not use water jet.
<b>Hazardous decomposition products</b>	Decomposition products may include the following materials: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide), Hydrogen Sulphide (H <sub>2</sub> S). Other hazardous substances.
<b>Unusual fire/explosion hazards</b>	Combustible liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
<b>Special fire-fighting procedures</b>	None identified.
<b>Protection of fire-fighters</b>	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

<b>Personal precautions</b>	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 spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	Avoid dispersal of spilled 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).
<b>Large spill</b>	Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
<b>Small spill</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

<b>Handling</b>	Wash thoroughly after handling. Avoid strong oxidisers.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.
<b>Combustibility Classification</b>	Combustible liquid Class C1 (AS 1940).
<b>Additional information-Storage</b>	Do not enter storage tanks without breathing apparatus unless the tank has been well ventilated and the tank atmosphere has been shown to contain hydrocarbon vapour concentrations of less than 1% of the lower flammability limit and an oxygen concentration of at least 20% volume.  Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks.

Will present a flammability hazard if heated above flash point but bulk liquids at normal storage temperatures will present virtually no fire hazard. If fuel contacts hot surfaces, or leaks from high pressure fuel pipes, the vapour and/or mists generated will create a flammability or explosion hazard. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. To avoid fire, eliminate ignition sources.

This material can contain hydrogen sulphide (H<sub>2</sub>S), a very toxic and extremely flammable gas. Vapors containing hydrogen sulfide may accumulate during storage or transport and may also be vented during filling of tanks. Hydrogen sulfide has a typical "bad egg" smell but at high concentrations the sense of smell is rapidly lost, therefore do not rely on sense of smell for detecting hydrogen sulfide. Use specially designed measuring instruments for determining its concentration. Hydrogen sulphide (H<sub>2</sub>S) has a characteristic "rotten egg" odor and at concentrations above 50 ppm, or prolonged exposures to lower concentrations, may dull the sense of smell so that the odor of the gas may not be apparent. DO NOT DEPEND ON THE SENSE OF SMELL TO DETECT H<sub>2</sub>S.

## 8 . Exposure controls/personal protection

### Ingredient name

Fuels, diesel

Naphthalene

Polycyclic aromatic hydrocarbons (PAHs)

Hydrogen Sulphide

### Occupational exposure limits

**ACGIH TLV (United States). Absorbed through skin.**

TWA: 100 mg/m<sup>3</sup> 8 hour(s). Form: Total Hydrocarbon. (vapour, Mist)

**NOHSC (Australia).**

STEL: 79 mg/m<sup>3</sup> 15 minute(s).

STEL: 15 ppm 15 minute(s).

TWA: 52 mg/m<sup>3</sup> 8 hour(s).

TWA: 10 ppm 8 hour(s).

**NOHSC (Australia).**

TWA: 0.2 mg/m<sup>3</sup> 8 hour(s).

**NOHSC (Australia).**

STEL: 21 mg/m<sup>3</sup> 15 minute(s).

STEL: 15 ppm 15 minute(s).

TWA: 14 mg/m<sup>3</sup> 8 hour(s).

TWA: 10 ppm 8 hour(s).

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

### Biological Limit Values

Polycyclic aromatic hydrocarbons (PAHs): 1-Hydroxypyrene (1-HP) in urine (with hydrolysis) - End of shift at end of workweek: Nonquantitative (ACGIH)  
ACGIH "Nonquantitative" Biological Exposure Indices (BEI®): Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data.

### Exposure controls

#### Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

#### 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.

### Personal protective equipment

#### Respiratory protection

Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure level. Approved air-supplied breathing apparatus must be worn where there is a risk of inhaling hydrogen sulphide gas. Personal gas monitors may also provide early warning of hydrogen sulphide. Air supplied respiratory protection should be worn whenever it is required for the worker's face to be within 3 feet of an open hatch.

#### Skin and body

Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

#### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### Eye protection

Safety glasses with side shields.

## 9 . Physical and chemical properties

Physical state	Liquid.
Colour	Hazy Yellow.
Odour	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
pH	Not available.
Boiling point / range	180°C (356°F) Initial boiling point
Melting point / range	Not available.
Relative density/Specific gravity	Not available.
Density	820 kg/m <sup>3</sup> (0.82 g/cm <sup>3</sup> ) at 15°C
Solubility	Not available.

## 10 . Stability and reactivity

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Avoid extreme temperatures, strong oxidizers, fire.
Incompatibility with various substances/Hazardous Reactions	No hazardous reactions identified.
Hazardous decomposition products	Decomposition products may include the following materials: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide), Hydrogen Sulphide (H <sub>2</sub> S). Other hazardous substances.

## 11 . Toxicological information

### Effects and symptoms

Eyes	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Skin	Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. As with all such products containing potentially harmful levels of PCAs, prolonged or repeated skin contact may eventually result in dermatitis or more serious irreversible skin disorders including cancer.
Inhalation	May cause irritation of respiratory tract, coughing, shortness of breath. Harmful on prolonged exposure. Contains material which can cause cancer. Vapour, mists or fumes may contain polycyclic aromatic hydrocarbons some of which are known to produce skin cancer. The inhalation of vapour, mists or fumes over long periods may therefore be hazardous.
Ingestion	Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Chronic toxicity	
Carcinogenic effects	SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER. Risk of cancer depends on duration and level of exposure. Classified 2B (Possible for humans.) by IARC: [Naphthalene]
Mutagenic effects	No known significant effects or critical hazards.
Other information	This material may contain significant quantities of polycyclic aromatic hydrocarbons (PAHs), some of which have been shown by experimental studies to induce skin cancer. May be harmful if absorbed through the skin. Prolonged or repeated contact may create cancer risk, organ damage, and adversely affect reproduction, fetal development and fetal survival. Avoid all skin contact.  Regular periodic self inspection of the skin is recommended, especially those areas subject to contamination. In the event of any localised changes in appearance or texture of the skin being noticed, medical advice should be sought without delay.

## 12 . Ecological information

Ecotoxicity	Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].
Biodegradability	
Persistence/degradability	This product is inherently biodegradable.
Mobility	Spillages may penetrate the soil causing ground water contamination. This material may accumulate in sediments.

**Bioaccumulative potential**  
**Other ecological information**

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

**Disposal considerations / Waste information**

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Special Precautions for Landfill or Incineration**

No additional special precautions identified.

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## 14 . Transport information

**International transport regulations**

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

**Special precautions for user**

No known special precautions required. See Section: "Handling and storage" for additional information.

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## 15 . Regulatory information

**Standard for the Uniform Scheduling of Drugs and Poisons**

Not regulated.

**Control of Scheduled Carcinogenic Substances**

**Ingredient name**

Fuels, diesel

**Schedule**

Scheduled

**Other regulations**

**Europe inventory**

**Europe inventory:** Not determined.

**United States inventory (TSCA 8b)**

**United States inventory (TSCA 8b):** All components are listed or exempted.

**Australia inventory (AICS)**

**Australia inventory (AICS):** All components are listed or exempted.

**Canada inventory**

**Canada inventory:** Not determined.

**China inventory (IECSC)**

**China inventory (IECSC):** Not determined.

**Japan inventory (ENCS)**

**Japan inventory (ENCS):** Not determined.

**Korea inventory (KECI)**

**Korea inventory (KECI):** Not determined.

**Philippines inventory (PICCS)**

**Philippines inventory (PICCS):** Not determined.

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## 16 . Other information

**Key to abbreviations**

AMP = Acceptable Maximum Peak  
ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.  
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail  
ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail  
CAS Number = Chemical Abstracts Service Registry Number  
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.  
ICAO = International Civil Aviation Organization.  
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.  
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.  
IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.  
NOHSC = National Occupational Health & Safety Commission, Australia  
TWA = Time weighted average  
STEL = Short term exposure limit  
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

## History

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**Prepared by** Product Stewardship

## 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 us.

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.