

Material Safety Data Sheet

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Infosafe No.	YSTTL	Issue Date : September 2002	ISSUED by BPAUST
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Product Name : **BP Premium Unleaded Petrol**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name	BP Premium Unleaded Petrol
Product Code	876
Product Use	Use only as a motor fuel for spark ignition engines. NOT for aviation use. Should NOT be used as a solvent nor cleaning agent. For specific application advice see appropriate Technical Data Sheet or consult your BP representative
Company Name	BP Australia Pty Ltd (ABN 53 004 085 616)
Address	Melbourne Central, 360 Elizabeth Street, Melbourne, Victoria 3000 Australia
Emergency Tel.	24hr 1800 638 556
Telephone Number/Fax	Tel: 61 3 9268 4111 Fax: (03) 9268-3321
Other Information	<p>This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside the BP Group of Companies. However, no warranty or representation, expressed or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.</p> <p>Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practise any patented invention without a valid licence. The BP Group shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.</p>

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition	<p>A complex mixture of volatile hydrocarbons containing paraffins, naphthenes, olefins and aromatics with carbon numbers predominantly between C4 and C12. May contain oxygenates. May also contain small quantities of proprietary performance additives.</p> <p>Hazardous Components</p> <p>Benzene, CAS No. 71-43-2 F, T, R45(1) May cause cancer, R11 Highly flammable, R48/23/24/25 Toxic: Danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed</p> <p>Gasoline, CAS No: 86290-81-5, T, R45 May cause cancer, R65 Harmful: may cause lung damage if swallowed, R38 Irritating to skin. (>90%)</p>
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3. HAZARDS IDENTIFICATION

Extremely flammable liquid. Explosive air/vapour mixtures may form at ambient temperature. Likely to cause skin irritation. May cause cancer, classified as a category 1 carcinogen.

Contains Benzene. Prolonged or repeated exposure to benzene can cause anaemia and other blood diseases, including leukaemia.

Harmful if swallowed - aspiration hazard.

Vapours may cause drowsiness and dizziness.

Vapour is heavier than air and may travel to remote sources of ignition (eg. along drainage systems, in basements etc.).

ABUSE:

Abuse involving deliberate inhalation of very high concentrations of vapour, even for short periods, can produce unconsciousness and/or result in a sudden fatality.

4. FIRST AID MEASURES

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Inhalation	<p>If exposure to vapour, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any symptoms persist obtain medical advice.</p> <p>Unconscious casualties must be placed in the recovery position. Monitor breathing and pulse rate and if breathing has failed, or is deemed inadequate, respiration must be assisted, preferably by the mouth to mouth method. Administer external cardiac massage if necessary. Seek medical attention immediately.</p>
Ingestion	<p>If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.</p>
Skin	<p>Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.</p> <p>In extreme situations of saturation with this product, drench with water, remove clothing as soon as possible and wash skin with soap and water. Seek medical advice if skin becomes red, swollen or painful.</p>
Eye	<p>Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.</p>
Advice to Doctor	<p>Treatment should in general be symptomatic and directed to relieving any effects.</p> <p>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.</p> <p>Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.</p>

5. FIRE FIGHTING MEASURES

	<p>For major fires call the Fire Service. Ensure an escape path is always available from any fire.</p> <p>There is a danger of flashback if sparks or hot surfaces ignite vapour. Use foam, dry powder or water fog. DO NOT use water jets.</p> <p>Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.</p> <p>Any spillage should be regarded as a potential fire risk.</p>
Hazardous	<p>Toxic fumes may be evolved on burning or exposure to heat.</p>
Combustion Products	<p>See Stability and Reactivity, Section 10 of this Safety Data Sheet.</p>

6. ACCIDENTAL RELEASE MEASURES

As this product has a very low flash point any spillage or leak is a severe fire and/or explosion hazard.

Spilled material may make surfaces slippery.

It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

Vapour is heavier than air and may travel to remote sources of ignition (eg. along drainage systems, in basements etc.).

Isolate spillage from all ignition sources including road traffic.

Evacuate all non essential personnel from the immediate area.

If spillage has occurred in a confined space, ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry.

Ensure good ventilation.

Wear protective clothing. See Exposure Controls/Personal Protection, section 8, of this Safety Data Sheet.

Large and uncontained spillages should be smothered with foam to reduce the risk of ignition.

The foam blanket should be maintained until the area is declared safe.

Recovery of large spillages should be effected by specialist personnel.

Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

Regular surveillance on the location of the spillage should be maintained.

In the event of spillages contact the appropriate authorities.

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7. HANDLING AND STORAGE

Handling

Ensure good ventilation and avoid as far as reasonably practicable the inhalation and contact with vapours, mists or fumes which may be generated during use. If such vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Avoid contact with skin and observe good personal hygiene.

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.

Do not siphon product by mouth.

Whilst using do not eat, drink or smoke.

Take all necessary precautions against accidental spillage into soil or water.

Storage

Store and dispense only in well ventilated areas away from heat and sources of ignition.

Store and use only in equipment/containers designed for use with this product.

Containers must be properly labelled and kept closed when not in use.

Do not remove warning labels from containers.

Empty packages may contain some remaining product. Retain hazard warning labels on empty packages as a guide to the safe handling, storage and disposal of empty packaging.

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.

Always have sufficient people standing by outside the tank with appropriate breathing apparatus and equipment to effect a quick rescue.

Other Information

Fire Prevention

Light hydrocarbon vapours can build up in the headspace of tanks. 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.

When the product is pumped (e.g. during filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure.

Electrical equipment should not be used unless it is intrinsically safe (i.e. will not produce sparks).

Explosive air/vapour mixtures may form at ambient temperature.

If product comes into contact with hot surfaces, or leaks occur from pressurised fuel pipes, the vapour 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 some remaining flammable product and vapour. Never cut, weld, solder or braze empty containers.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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Exposure Limits	<p>Ensure good ventilation. Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level. Relevant exposure limits are: Petrol (Gasoline) NOHSC Exposure Standard: 900 ppm (8hr TWA) Benzene NOHSC Exposure Standard: 5ppm (similar or equal to: 16 mg/m³) (8hr TWA). Carcinogen category notice: Category 1. Established human carcinogen known to be carcinogenic to humans. There is sufficient evidence to establish a causal association between human exposure to these substances and the development of cancer. See Chapter 13: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by National Occupational Health and Safety Commission (NOHSC). No standard should be applied without reference to the Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)], and to the related documentation. Documentation notice: National Occupational Health and Safety Commission (NOHSC) documentation available for these values. Carcinogen Category 1 (Confirmed Human Carcinogen) Note: Several comprehensive reviews have been made of benzene toxicity over the recent years. It is not, therefore, the intention of this documentation to exhaustively review all related scientific literature, but to summarise the available quantitative dose-response information with regard to exposure to low concentrations of benzene. This information was used to provide guidelines for the Exposure Standards Working Group to set an exposure standard for benzene.</p>
Respiratory Protection	<p>If operations are such that exposure to vapour, mist or fume may be anticipated, then suitable approved respiratory equipment should be worn. The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.</p>
Body Protection	<p>Wear face visor or goggles in circumstances where eye contact can accidentally occur. If skin contact is likely, wear impervious protective clothing and/or gloves. Protective clothing should be regularly inspected and maintained; overalls should be dry-cleaned, laundered and preferably starched after use.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

Odour	Gasoline like
Boiling Point	30 - 230°C Test Method: ASTM D 86
Vapour Pressure	30 - 100 kPa Test Method: ASTM D 323
Physical State	Low viscosity liquid
Colour	Yellow
Density	750 kg/m ³ @ 15°C Test Method: ASTM D 1298
Flash Point	-40°C (PMC) Test Method: ASTM D 93
Flammable Limits LEL	1.4%
Flammable Limits UEL	7.6%
Other Information	Grades: BP Premium Unleaded Petrol

10. STABILITY AND REACTIVITY

Stability	Stable at ambient temperatures.
Hazardous Polymerization	Hazardous polymerisation reactions will not occur.
Materials to Avoid	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

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Conditions to Avoid Sources of ignition
Avoid excessive heat.

11. TOXICOLOGICAL INFORMATION

Inhalation Likely to be irritating to the respiratory tract if high concentrations of mists or vapour are inhaled.
May cause nausea, dizziness, headaches and drowsiness if high concentrations of vapour are inhaled.
ABUSE:
Abuse involving deliberate inhalation of very high concentrations of vapour, even for short periods, can produce unconsciousness and/or result in a sudden fatality.

Ingestion Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Will injure the lungs if aspiration occurs, eg. during vomiting.

Skin Likely to cause skin irritation.
Likely to result in chemical burns following prolonged wetting of the skin. (eg. after a road traffic accident).

Eye Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Subchronic/Chronic Toxicity Carcinogenicity/Chronic Toxicity
Exposure to benzene may result in affects to the hematopoietic system causing blood disorders including anaemia and leukaemia.
Benzene is classified by EEC as a category 1 carcinogen - substances known to be carcinogenic to man.
IARC assessment: benzene - carcinogenic to humans (Group 1)

12. ECOLOGICAL INFORMATION

Mobility Spillages may penetrate the soil causing ground water contamination.

Persistence / Degradability This product is inherently biodegradable.

Bioaccumulation There is no evidence to suggest bioaccumulation will occur.

Acute Toxicity - Other Organisms Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.
Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers.
Materials contaminated with product should be treated as extremely flammable.
Disposal should be in accordance with local regulations.

14. TRANSPORT INFORMATION

ADG: PETROL, UN 1203, Class 3, Flammable liquid, 3[Y]E , Packing Group II
UN: PETROL, UN 1203, Class 3, Flammable liquid, Packing Group II
IATA/ICAO: PETROL, UN 1203, Class 3, Flammable liquid, Packing Group II
IMO: PETROL, UN 1203, Class 3, Flammable liquid, Packing Group II,

U.N. Number 1203

Proper Shipping Name PETROL

DG Class 3

Hazchem Code 3[Y]E

Packaging Method 5.9.3RT1

Packing Group II

IERG Number 14

15. REGULATORY INFORMATION

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Contains:

Low boiling point naphtha - unspecified

Classified as a Toxic hazardous substance using the Worksafe Australia criteria.

Fuels are exempt from the Standard Uniform Schedule for Drugs and Poisons, except when packed in containers having a capacity of 20 litres or less.

Classified as a Scheduled 5 (S5) Poison using the criteria in the Standard Uniform Schedule for Drugs and Poisons.

Risk Phrase

R12 Extremely Flammable.

R38 Irritating to skin.

R45(1) May cause cancer.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R65 Harmful: may cause lung damage if swallowed.

Safety Phrase

S16 Keep away from sources of ignition - No smoking.

S2 Keep out of reach of children.

S23 Do not breathe gas/fumes/vapour/spray

S24 Avoid contact with skin.

S29 Do not empty into drains.

S33 Take precautionary measures against static discharges.

S43(1) In case of fire use alcohol resistant foam/dry powder/CO2. Never use water.

S45 In case of accident or if you feel unwell seek medical advice immediately (show label where possible)

S51 Use only in well ventilated areas.

S53 Avoid exposure - obtain special instructions before use.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Poisons Schedule

S5

Hazard Category

Toxic, Irritant, Extremely Flammable

16. OTHER INFORMATION

Compiled by:

Health, Safety, Environment and Security Division.

Contact Person/Point

BP Australia Limited,

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Melbourne Central

360 Elizabeth Street,

Melbourne, 3000

Victoria

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