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NOHSC 16 Section

# Material Safety Data Sheet

## UNLEADED PETROL

**Infosafe™** AMPHO **Issue Date** May 2009 **Status** ISSUED by BS:  
**No.** CALTEX 1.10.9

Classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** UNLEADED PETROL

**Product Code** 200

**Company Name** Caltex Australia Petroleum Pty Ltd (ABN 17 000 032 128)

**Address** 2 Market Street, Sydney  
NSW 2000

**Emergency Tel.** 1800 033 111

**Telephone/Fax Number** Tel: (02) 9250 5000  
Fax: (02) 9250 5742

**Recommended Use** Fuel.

Other Names	Name	Product Code
	PETROL	
	GASOLINE	

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## 2. HAZARDS IDENTIFICATION

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**Hazard** HAZARDOUS SUBSTANCE.  
**Classification** DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia  
Dangerous Goods Code.

**Risk Phrase(s)** R11 Highly flammable.  
R65 Harmful: may cause lung damage if swallowed.  
R45(1) May cause cancer.  
R46(2) May cause heritable genetic damage.  
R48/20/21/22 Harmful: danger of serious damage to health by  
prolonged exposure through inhalation, in contact with skin  
and if swallowed.

**Safety Phrase** S2 Keep out of reach of children.  
**(s)** S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe gas/fumes/vapour/spray  
S24 Avoid contact with skin.  
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.

**Other** Use as a motor fuel only. Do not siphon with the mouth.  
**Information** Do not use in the vicinity of a fire, a hot surface or  
during welding.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Petroleum hydrocarbons	8008-20-6	90-100 %
	Benzene	71-43-2	0-1 %

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## 4. FIRST AID MEASURES

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<b>Inhalation</b>	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.
<b>Skin</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms persist, seek medical attention.
<b>Eye</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
<b>First Aid Facilities</b>	An eye wash fountain, safety shower and a general washing facility.
<b>Advice to Doctor</b>	Treat symptomatically, there is a risk of chemical pneumonitis if the material is aspirated into the lungs.
<b>Other Information</b>	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Carbon dioxide, dry chemical, foam.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

<b>Specific Hazards</b>	Highly flammable. Ensure adequate ventilation to prevent explosive vapour-air mixture and prevent build-up of electrostatic charges (i.e. by grounding). Vapour/air mixtures may ignite explosively and flashback along the vapour trail. Remove sources of re-ignition.
<b>Hazchem Code</b>	3YE
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Emergency Procedures</b>	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.
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## 7. HANDLING AND STORAGE

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**Precautions  
for Safe  
Handling**

Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

**Conditions for  
Safe Storage**

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

**Other  
Information**

Fuels are exempt from the Standard for the Uniform Scheduling of Drugs and Poisons, except when packed in containers having a capacity of 20 litres or less. Classified as a Scheduled (S5) Poison using the criteria in the SUSDP (Standard for the Uniform Scheduling of Drugs and Poisons) when used for other applications rather than as a fuel.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>National Exposure Standards</b>	No exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC). However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.
<b>Engineering Controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
<b>Eye Protection</b>	Chemical safety glasses or face shield recommended as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances including methods of handling or engineering controls as determined by appropriate risk assessments. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear gloves of impervious material e.g. neoprene, nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. The use of barrier cream is recommended.

**Body Protection** Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** Purple mobile liquid, with a characteristic odour.

**Melting Point** Not available

**Boiling Point** 30 - 210°C

**Solubility in Water** Insoluble

**Specific Gravity** 0.73-0.75 at 15°C

**pH Value** Not Applicable

**Vapour Pressure** 67 kPa at 37.8°C

**Vapour Density (Air=1)** 3.5 (cf Air = 1)

**Viscosity** < 1.4 cSt @ 40°C

**Flash Point** - 40°C (Closed Cup)

**Flammability** Highly Flammable liquid

**Auto-Ignition Temperature** 370°C

**Explosion Limit - Upper** 7.6%

**Explosion Limit - Lower** 1.4%

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Heat and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Reactions</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	No toxicity data available for this product.
<b>Inhalation</b>	Vapours may cause headache, nausea with vomiting, dizziness, confusion and other effects of central nervous system depression. Loss of consciousness can occur at high concentrations followed by convulsions and death.
<b>Ingestion</b>	May cause irritation to the gastrointestinal system. Symptoms may include abdominal pain, nausea, vomiting, diarrhoea or depression of the central nervous system including nausea, headaches, dizziness, fatigue, loss of coordination, unconsciousness and possibly narcosis. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may lead to aspiration into the lungs with a possibility of chemical pneumonia or lung damage.



- Skin** May cause irritation to the skin resulting in itching and redness of the skin. Poisoning may occur from prolonged or massive skin contact.
- Eye** May cause irritation in contact with the eyes, which can result in redness, stinging and lachrymation.
- Chronic Effects** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Prolonged and repeated exposure through inhalation or swallowing of this material can result in harmful effects including central nervous system effects. Systemic effects of chronic exposure can also include damage to heart, kidneys and liver. Prolonged or repeated skin contact may also result in skin dryness and cracking, skin irritation leading to dermatitis.
- Mutagenicity** This material is classified as a Category 2 Mutagen according to National Occupational Health And Safety Commission (NOHSC). Category 2 Mutagens are substances that should be regarded as if they are mutagenic to humans.
- Carcinogenicity** This substance is classified as a Category 1 Carcinogen according to National Occupational Health and Safety Commission (NOHSC). Category 1 Carcinogens are substances known to be carcinogenic to humans.

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## 12. ECOLOGICAL INFORMATION

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- Ecotoxicity** Not available
- Persistence / Degradability** Not available
- Mobility** Not available
- Environment Protection** Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

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## 14. TRANSPORT INFORMATION

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**Transport Information** This material is classified as a Class 3 (Flammable Liquids) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gases
- Class 4.2, Spontaneously Combustible Substances
- Class 5.1, Oxidising Agents
- Class 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substances

**U.N. Number** 1203

**Proper Shipping Name** MOTOR SPIRIT

**DG Class** 3

**Hazchem Code** 3YE

**Packing Group** II

**EPG Number** 3.1.001

**IERG Number** 14

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## 15. REGULATORY INFORMATION

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**Regulatory Information** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule** Not Scheduled

**Hazard Category** Toxic, Highly Flammable

**AICS (Australia)** All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Review: May 2009.  
MSDS Supersedes: May 2004.  
Minor change: Flask point correction 21/05/2009

**Contact Person/Point** CHEMICAL EMERGENCIES: 1 800 033 111  
TECHNICAL ADVICE: 1300 364 169

Health & Safety Advisor

Tel: (02) 9250 5822 and (02) 9250 5734

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