

Material Safety Data Sheet

LOW SULFUR DIESEL

Infosafe No. JAC5D **Issue Date** April 2005 **Status** ISSUED by CALTEX

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name CALTEX AUSTRALIA LIMITED
Address MLC BUILDING 19 - 29 Martin Place SYDNEY
NSW 2000
Tel/Fax Tel: (02) 9250 5000 Fax: (02) 9250 5742
Other Information The most recent MSDS for this product can be obtained from the Caltex Australia website - 'www.caltex.com.au'.

IDENTIFICATION

Product Name LOW SULFUR DIESEL
Proper Shipping Name None Allocated

Other Names Name LOW SULFUR DIESEL UNMARKED
AUTOMOTIVE DIESEL FUEL
DIESEL
DIESEL FUEL UNMARKED
Product Code

UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated
Poisons Schedule S5
Product Use Fuel, mould oil.

Physical Data

Appearance Light brown oil, with a slight characteristic odour.
Boiling Point 200 - 400°C
Vapour Pressure < 1 mmHg
Specific

Gravity	0.85
Flash Point	80°C (PMCC)
Flamm. Limit	
LEL	Not available.
Flamm. Limit	
UEL	Not available.
Solubility in Water	Insoluble.

Other Properties

Autoignition Temp.	350°C
Vapour Density	>1 (cf Air = 1)
pH Value	Not Applicable
Viscosity	3.0 cSt @ 40°C
Stability	Stable under normal conditions of storage and handling.
Materials to Avoid	Strong oxidising agents.

Ingredients

Information on

Composition Mixture of diesel fuel, additives and no more than 500ppm sulfur.

Ingredients	Name	CAS	Proportion
	Diesel Fuel	68334-30-5	60-100 %
	Ingredients determined not to be hazardous		

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Harmful, may cause lung damage if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Aspiration into the lungs may result in chemical pneumonitis.
Acute - Eye	May cause irritation in contact with the eyes, which can result in redness, stinging and tearing.
Acute - Skin	May cause irritation to the skin that may result in redness, itchiness and swelling. Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possibly lead to dermatitis.
Acute - Inhaled	Mists and vapours generated may cause irritation of the upper respiratory tract. Inhalation of high concentration may lead to headache, dizziness, nausea, vomiting, drowsiness or narcosis.

Hazards Identification

Classified as Hazardous according to the criteria of the NOHSC.
Not classified as dangerous goods according to the ADG Code.

Risk Phrase:

R40(3) Possible risk of irreversible effects.

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

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Chronic

Possible risk of irreversible effect. Prolonged or repeated skin contact may cause skin irritation leading to dermatitis. Repeated or prolonged inhalation of high vapour concentrations can cause drowsiness and lead to narcosis or death.

First Aid

Swallowed

DO NOT induce vomiting. Give nothing by mouth to an unconscious person. Seek IMMEDIATE medical attention.

Eye

If contact with the eye(s) occur, wash with copious amounts of water, holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops, seek medical attention.

Skin

Remove contaminated clothing and wash before re-use. Wash thoroughly with soap and water. If irritation develops, seek medical attention.

Inhaled

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek medical attention.

First Aid

Facilities

Eye wash and normal washroom facilities.

Other

Information

For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

Advice to Doctor

Advice to

Doctor

Treat symptomatically. For further advice, contact the Poisons Information Centre.

Other Health Hazard Information

PRECAUTIONS FOR USE

Other

Exposure Info.

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Caltex recommends a daily 8 hour TWA Exposure Standards of 100 ppm of total hydrocarbons.

Eng. Controls

Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

Personal Protection

**Respirator
Type (AS
1716)**

Avoid breathing of vapours/mists. Where ventilation is inadequate and vapours/mists are generated, the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended; however final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to

individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715- Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716- Respiratory Protective Devices.

Eye Protection	If possibility of eye contact exists safety glasses with face shield should be worn as described in Australian Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
Glove Type	Impervious PVC or rubber gloves should be worn to minimise skin contact.
Clothing	Any routine contact with this material should require the use of protective clothing such as an apron made of neoprene, nitrile, or n-butyl rubber suitable for the application.
Footwear	Safety boots with non-slip soles as required.
Other Information	Biological Limit Values: No biological limit allocated.

Flammability

Fire Hazards	Classified as a Class 1- Combustible liquid. Avoid all sources of ignitions, heat or sparks. May emit toxic fumes under fire conditions.
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SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions	Classified as combustible liquid for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Avoid sparks, flames and other ignition sources. Store away from incompatible materials. 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 Local, State and Federal regulations.
Transport	Not classified as Dangerous Good according to Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition).
Handling	Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of mist in the working atmosphere must be prevented. Ensure ventilation is adequate. Prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.
Proper Shipping Name	None Allocated

Spills and Disposal

Accidental Release Measures	Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment including air supplied respirator, and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Prevent contamination of groundwater or surface water. If large quantities of this material
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enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Disposal Considerations Dispose of waste according to federal, E.P.A, State and local regulations. Assure conformity with all applicable regulations.

Fire/Explosion Hazard

Fire/Explos. Hazard Combustible liquid. Avoid all sources of ignition, heat and open flame. May emit toxic fumes under fire conditions. Fire-exposed containers may rupture/explode.

Hazardous Combustion Products Oxides of carbon.

Fire Fighting Precautions Self-contained breathing apparatus (S.C.B.A) and full protective clothing should be worn to reduce the risk from exposure to combustion products and oxygen deficiency.

Extinguishing Media Use carbon dioxide, dry chemical or foam. DO NOT use water spray directly on the fire as this may spread the fire. Water or foam may cause frothing. Use water spray to cool fire exposed containers.

Hazchem Code None Allocated

OTHER INFORMATION

Toxicology Middle distillates have caused skin cancer in laboratory animals following lifetime application to the skin. Brief or intermittent skin contact is not expected to cause adverse effects if it is washed thoroughly. Avoid prolonged or repeated contact or breathing of vapour or mist.
U.S. NIOSH has recommend whole diesel exhaust be regarded as a potential occupational carcinogen, based on findings of carcinogenic response in laboratory animals exposed to whole diesel exhaust. The excess risk has not been estimated. Avoid exposure to diesel.
NOTE: Exhaust from fuel oils and gas oils may present similar exposure potential and should also be avoided.

This product has been classed as a Carcinogen Category 3 Substance- R40 Possible risk of irreversible effects. That is, substances which cause concern for humans owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment.
A substance is included in Category 3 if there is some evidence from appropriate animal studies that human exposure can result in the development of cancer, but this evidence is insufficient to place the substance in Category 2.

Environment Protection Risk Statement Prevent the material from entering the environment. This substance may present environmental risks common to oil spills.

Safety Statement R65 Harmful: may cause lung damage if swallowed.
R40(3) Possible risk of irreversible effects.
S2 Keep out of reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapour/spray
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Pkg. & Labelling Labelling requirements of the Standard for Uniform Scheduling of Drugs and Poisons do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing purposes; however is labelled in accordance with the National Occupational Health and Safety Commission's 'National Code of Practice

for the Labelling of Workplace Substances'.

Hazard Category	Harmful
Ecotoxicity	Not available
Persistence / Degradability	Not available
Mobility	Not available
SDS History	MSDS Review: March 2005 MSDS Superseded: November 2002

CONTACT POINT

Contact	CHEMICAL EMERGENCIES: 1 800 033 111 TECHNICAL ADVICE: 1300 364 169 Health & Safety Advisor Tel: (02) 9695 3607 or (02) 9250 5900 PLEASE NOTE that although every care has been taken in compiling the above information, it is solely reliant upon data available to us at the date hereof. We believe the data to be correct, however for the reason just stated we are not in a position to warrant its accuracy. With that in mind and given that the full range of possibilities and conditions under which the information may be applied simply cannot be anticipated, YOU ARE CAUTIONED to make your own determinations as to the veracity and the suitability of the information to the particular circumstances that apply, or may apply, to you from time to time. Consistent with that approach it is recommended that where you have a particular purpose which would necessitate a reliance on information of the nature herein you obtain your own independent expert advice particularly structured to the relevant purpose. If this material is printed, circulated, distributed or copied in any manner, it is not to be modified without prior written permission, and further, it is to include the wording of the above disclaimer.
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End of MSDS
