Shell Material Safety Data Sheet

Infosafe No. CV78I  Issue Date: July 2003  ISSUED by SHELL

Product Name: DIESEL

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name
Shell Company of Australia Ltd. (ABN 46 004 610 459)

Address
Level 2, 8 Redfern Road Hawthorn East
VIC 3123  Australia

Emergency Tel.
1800 651 818

Tel/Fax
Tel: 03 9666 5444  Fax: 1800 332 550

IDENTIFICATION

Product Name
DIESEL

Proper Shipping Name
None Allocated
<table>
<thead>
<tr>
<th>Other Names</th>
<th>Name</th>
<th>Mancode</th>
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<tbody>
<tr>
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<td>ALPINE DIESOLINE 100</td>
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<td>GAS OIL</td>
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</table>

**UN Number**

None Allocated

**DG Class**

None Allocated

**Packing Group**

None Allocated

**Hazchem Code**

None Allocated

**Poisons Schedule**

S5

**Product Use**

Fuel for diesel powered engines.
Physical Data

Appearance
Straw to dark coloured liquid with a diesel odour.

Melting Point
Not available

Boiling Point
IBP: Approx 150°C.
FBP: Approx 390°C.

Vapour Pressure
< 0.5 kPa

Specific Gravity
0.80-0.85 @ 15°C (Water = 1)

Flash Point
> 61.5°C

Flamm. Limit LEL
Approx. 1% v/v

Flamm. Limit UEL
Approx. 6% v/v

Solubility in Water
Negligible

Other Properties

Volatile Component
100%
Autoignition Temp.
> 250°C

Vapour Density
> 5 (Air = 1)

Stability
Stable.

Haz. Polymerization
Will not occur.

Materials to Avoid
Strong oxidizing agents.

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Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
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</thead>
<tbody>
<tr>
<td>Diesel</td>
<td></td>
<td>68334-30-5</td>
<td>100 %</td>
</tr>
</tbody>
</table>

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HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed
Harmful: may cause lung damage if swallowed. Ingestion may cause nausea and vomiting. If vomiting occurs product may be aspirated into the lungs leading to chemical pneumonitis.

Acute - Eye
Product may cause slight to moderate irritation to the eyes.

Acute - Skin
Skin contact may cause moderate irritation to the skin. Release during high pressure usage may result in injection of oil into the skin causing local necrosis.

**Acute - Inhaled**

Inhalation of vapours or mists generated at elevated temperatures may irritate the respiratory system. Inhalation of high vapour concentrations may result in central nervous system depression. Inhalation of high levels of mist may result in chemical pneumonitis.

**Chronic**

Prolonged or repeated skin contact may cause defatting leading to dermatitis. It is important to recognise that this product is classified as a Category 3 Carcinogen according to National Occupational Health And Safety Commission (NOHSC). That is, 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.

**First Aid**

**Swallowed**

Do NOT induce vomiting. Contact a Poisons Information Centre (Phone 131 126) or a doctor at once. Where vomiting occurs naturally have victim place head below hip level in order to reduce risk of aspiration.

**Eye**

If in eyes wash out immediately with water. If symptoms persist seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention. If high pressure injection injury occurs seek medical attention immediately.

**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 face mask if breathing is difficult. If symptoms develop seek medical attention.

**First Aid Facilities**

Eye wash fountains and safety showers should be available for emergency use.
Advice to Doctor

Treat symptomatically. Care must be taken when performing gastric lavage due to the aspiration hazard associated with this material. Consult a Poisons Information Centre (Phone 131 126) for further advice.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits

The following National Occupational Health And Safety Commission (NOHSC) exposure limit applies:

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil mist, refined</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>mineral</td>
<td></td>
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</table>

Eng. Controls

Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or where no exposure standard is allocated, as low as is reasonably practicable.

Personal Protection

Respirator Type (AS 1716)

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. 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 then safety glasses with side shields or goggles should be worn as described in Australian Standard AS/ANZ 1337 - Eye Protectors for Industrial Applications.

**Glove Type**

Impervious PVC or rubber gloves should be worn.

**Clothing**

Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons, sleeves and rubber boots is recommended.

**Work/Hygienic Practices**

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

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**Flammability**

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**Fire Hazards**

Combustible liquid, will not burn unless preheated. Isolate from sources of heat, naked flames or sparks Refer to AS 1940 - Storage and handling of flammable and combustible liquids and AS 2865 - Safe working in a confined space, for more specific information on these subjects.

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**SAFE HANDLING INFORMATION**

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**Storage and Transport**

**Storage Precautions**

Classified as a class C1 combustible liquid for storage and handling purposes. Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use.
Transport

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Proper Shipping Name

None Allocated

Spills and Disposal

Spills & Leaks

Remove all sources of ignition. Stop leak if safe to do so. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Do not dilute material but contain. For large spills contain the spill with sand or earth and take up with a vacuum truck. For smaller spills place inert, non-combustible absorbent such as vermiculite, sand or dirt onto material. Collect the material using clean non-sparking tools and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Disposal

Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs. 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.

Fire/Explosion Hazard

Combustible. Keep storage tanks, pipelines, fire exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. May form explosive mixtures with air. Take steps to prevent electrostatic discharge. Containers may explode if exposed to heat. Vapours are heavier than air and may 'travel' to low-level
areas e.g. sumps, drains, etc. and flashback.

**Hazardous Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Fire Fighting Procedures**

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Use water spray to cool fire exposed containers.

**Extinguishing Media**

Use foam, CO2 or powder to extinguish fire.

**Hazardous Reaction**

Stable. Avoid oxidising agents and naked flames.

**Hazchem Code**

None Allocated

**Unsuitable Extinguishing Media**

Direct water stream.

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**OTHER INFORMATION**

**Toxicology**

LD50 (Oral, rat) = 7500 mg/kg.

**Risk Statement**

R40 Possible risk of irreversible effects.
R65 Harmful: may cause lung damage if swallowed.

**Safety Statement**

S24 Avoid contact with skin.
S36/37 Wear suitable protective clothing and gloves.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**Hazard Category**
Harmful

References

For detailed advice on Personal Protective equipment, refer to the following Australian Standards :-
AS 1337  Eye protectors for industrial applications.
AS 1715  Selection, use and maintenance of respiratory protective devices.
AS 1716  Respiratory protective devices.

CONTACT POINT

Contact

National 24 hr Emergency Response :- 1800 651 818

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