Material Safety Data Sheet

DELO 400 MULTIGRADE SAE 15W-40

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- **Product Name**: DELO 400 MULTIGRADE SAE 15W-40
- **Product Code**: 2696
- **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**: Diesel engine oil.
- **Other Names**: None Listed
- **Other Information**: The most recent MSDS for this product can be obtained from the Caltex Australia website - 'www.caltex.com.au'.

2. HAZARDS IDENTIFICATION

- **Hazard Classification**: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

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

- **Safety Phrase(s)**: S23(2) Do not breathe vapour. S24/25 Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS
### 1. Identification

- **Product Name:** DELO 400 MULTIGRADE SAE 15W-40
- **Supplier:** Caltex

### 2. Hazards Identification

#### Health Hazards

#### Physical Hazards

#### Environmental Hazards

### 3. Composition

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Distillates (petroleum), hydrotreated heavy paraffines</td>
<td>64742-54-7</td>
<td>50-100 %</td>
</tr>
<tr>
<td>-</td>
<td>Zinc alkyl dithiophosphate</td>
<td>68649-42-3</td>
<td>0-1 %</td>
</tr>
<tr>
<td>-</td>
<td>Non-hazardous ingredients</td>
<td></td>
<td>Balance</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Inhalation**

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

**Ingestion**

Do NOT induce vomiting. Wash out mouth with water. If symptoms develop 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.

**Eye**

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.

**First Aid Facilities**

Eye wash and normal wash room facilities.

**Advice to Doctor**

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, foam, water fog.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of sulphur, nitrogen, phosphorus and boron.

**Specific Hazards**

Combustible liquid. This product will readily burn under fire conditions.

**Precautions in connection with Fire**

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.

### 6. ACCIDENTAL RELEASE MEASURES

- **Leaking Containers:** Use suitable inert material to minimize the release of product. If airborne dust cloud is formed, use suitable dust-suppressing agent to minimize the extent of the cloud.
- **Contaminated Containers:** Use suitable inert material to minimize the release of product. If airborne dust cloud is formed, use suitable dust-suppressing agent to minimize the extent of the cloud.
- **Spilled Product:** Remove to appropriate waste collection facility. If spill is small, carefully collect it in suitable container for waste disposal.

### 7. HANDLING AND STORAGE

- **Handling:** Handle the product with care to avoid skin and eye contact. Use approved personal protective equipment (PPE).
- **Storage:** Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, and open flames.

### 8. EXPOSURE GUIDELINES

- **Threshold Limit Value (TLV):** 15 mg/m³.
- **Immediately Dangerous to Life or Health (IDLH):** Not applicable.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Black or dark brown liquid.
- **Odour:** May or may not have an odour.
- **Odour Threshold Value (OTV):** Not applicable.
- **Flash Point:** Not applicable.
- **Boiling Point:** Not applicable.
- **Reactivity:** Not applicable.

### 10. DISPOSAL CONSIDERATIONS

- **Environmentally Hazardous:** Yes
- **Disposal Methods:** Disposal must be in accordance with local, state, and federal regulations.

### 11. REGULATORY INFORMATION

- **Regulatory Status:** Not classified.
- **Transportation Hazards:** Not applicable.

### 12. MSDS:

Emergency Procedures

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 and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Use in a well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. Repeated or prolonged skin exposure without protection should be prevented 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 ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage

Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and 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. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. 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 State and Federal regulations.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

National Exposure Standards

No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for oil mist is 5 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels.

Engineering Controls

Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. 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

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e.
methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Hand Protection**
Wear gloves of impervious material such as Viton, Nitrile or Silver Shield. 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.

**Body Protection**
Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Petroleum odour</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&lt;-24°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;315°C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.89 at 15°C</td>
</tr>
<tr>
<td>pH Value</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>&lt;0.01 mmHg at 37°C</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>204°C Minimum (COC).</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible liquid (C2)</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable Limits - Lower</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>125 cSt at 40°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>15.1 cSt at 100°C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Chemical Stability**
Stable under normal conditions of storage and handling.
Conditions to Avoid

Strong oxidising agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products

Decomposition may result in the release of carbon monoxide, carbon dioxide, oxides of sulphur, nitrogen, phosphorus and boron.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin may be irritating to skin. The symptoms may include redness, itching and swelling.

Eye may be irritating to eyes. The symptoms may include redness, itching and tearing.

Chronic Effects Prolonged or repeated skin contact may cause defatting leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available for this material. However, oil spills can smother and suffocate aquatic life by preventing passage of oxygen into water. Oil contamination can also foul and smother birds and marine animals.

Persistence / Degradability Not available

Mobility Not available

Environment Protection Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
14. TRANSPORT INFORMATION

**Transport Information**
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

15. REGULATORY INFORMATION

**Regulatory Information**
Not 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 Medicines and Poisons (SUSMP).

**Poisons Schedule**
Not Scheduled

16. OTHER INFORMATION

**Date of preparation or last revision of MSDS**
MSDS Reviewed: November 2010
Supersedes: November 2005

**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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End of MSDS