

# Material Safety Data Sheet



## DELO 400 MULTIGRADE SAE 15W-40

**Infosafe™** CAL01 **Issue Date** November 2010 **Status** ISSUED by BS: 1.10.9  
**No.** CALTEX

**Not classified as hazardous**

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**Product Name** DELO 400 MULTIGRADE SAE 15W-40

**Product Code** 2696

**Product Use** Diesel engine oil.

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

**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. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Hazard	R Phrase
	Distillates	64742-54-7	50-100 %	

(petroleum),  
hydrotreated heavy  
paraffines  
Zinc alkyl 68649-42-3 0-1 %  
dithiophosphate  
Non-hazardous Balance  
ingredients

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### 3. HAZARDS IDENTIFICATION

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

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

**Ingestion** 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.

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### 4. FIRST AID MEASURES

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**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.

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## 5. FIRE FIGHTING MEASURES

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**Extinguishing**

**Media** Carbon dioxide, dry chemical, foam, water fog.

**Specific Hazards** Combustible liquid. This product will readily burn under fire conditions.

**Hazardous 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.

**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.

**Flash Point** 204°C Minimum (COC).

**Ignition Temperature** Not available

**Flammable Limits UEL** Not applicable

**Flammable Limits LEL** Not applicable

**Flammability** Combustible liquid (C2)

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## 6. ACCIDENTAL RELEASE MEASURES

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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.

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## 7. HANDLING AND STORAGE

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**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.

**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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**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/m<sup>3</sup>. As with all chemicals, exposure should be kept to the lowest possible levels.

**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.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Brown liquid
<b>Odour</b>	Petroleum odour
<b>Melting Point</b>	<-24°C
<b>Boiling Point</b>	>315°C
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity (H2O=1)</b>	0.89 at 15°C
<b>pH Value</b>	Not applicable
<b>Vapour Pressure</b>	<0.01 mmHg at 37°C
<b>Vapour Density (Air=1)</b>	Not available
<b>Flash Point</b>	204°C Minimum (COC).
<b>Flammability</b>	Combustible liquid (C2)
<b>Ignition Temperature</b>	Not available
<b>Flammable Limits LEL</b>	Not applicable
<b>Flammable Limits UEL</b>	Not applicable
<b>Kinematic Viscosity</b>	125 cSt at 40°C 15.1 cSt at 100°C

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## 10. STABILITY AND REACTIVITY

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**Stability** Stable under normal conditions of storage and handling.

**Hazardous Polymerization** Will not occur.

<b>Materials to Avoid</b>	Strong oxidising agents, such as chlorates, nitrates, peroxides, etc.
<b>Hazardous Decomposition Products</b>	Decomposition may result in the release of carbon monoxide, carbon dioxide, oxides of sulphur, nitrogen, phosphorus and boron.
<b>Conditions to Avoid</b>	Extremes of temperature and other sources of ignition.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	No toxicity data available for this material. The available acute toxicity data for the ingredients as published by RTECS (Registry of Toxic Effects of Chemical Substances) are as follows: Acute toxicity data for Petroleum distillates, hydrotreated heavy paraffinic e: LD50 (Oral, Rat): >15 gm/kg
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Skin</b>	May be irritating to skin. The symptoms may include redness, itching and swelling.
<b>Eye</b>	May be irritating to eyes. The symptoms may include redness, itching and tearing.
<b>Chronic Effects</b>	Prolonged or repeated skin contact may cause defatting leading to dermatitis.

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## 12. ECOLOGICAL INFORMATION

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

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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

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## 15. REGULATORY INFORMATION

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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).

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

**Poisons Schedule** Not Scheduled

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## 16. OTHER INFORMATION

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**Contact** CHEMICAL EMERGENCIES: 1 800 033 111  
**Person/Point** TECHNICAL ADVICE: 1300 364 169  
Health & Safety Advisor  
Tel: (02) 9250 5822 and (02) 9250 5734  
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

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**SDS History**

MSDS Reviewed: November 2010  
Supersedes: November 2005

**Poisons Schedule** Not Scheduled

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End of MSDS

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