

# Material Safety Data Sheet

## HYDRAULIC OIL AW 46

Infosafe<sup>SM</sup> ACPZ3  
No.

Issue Date March 2007

Status ISSUED by  
CALTEX

BS: 1.9.11

Not classified as hazardous

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

**Product Name** HYDRAULIC OIL AW 46

**Product Code** 1597

**Product Use** Hydraulic oil.

**Company Name** CALTEX AUSTRALIA LIMITED (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

**Information on Composition** Petroleum derived base oils and proprietary additives.

Ingredients	Name	CAS	Proportion	Hazard	R Phrase
	Ingredients determined not to be hazardous	Not required	Balance to 100%		
	Distillates	64742-65-	90-100 %		

(petroleum), 0  
solvent dewaxed  
heavy paraffinic

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### 3. HAZARDS IDENTIFICATION

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<b>Chronic Effects</b>	Prolonged or repeated contact may result in skin irritation leading to dermatitis.
<b>Inhalation</b>	Inhalation of vapours or mists generated at elevated temperatures may cause respiratory system irritation and other pulmonary effects.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.
<b>Skin</b>	May cause irritating in contact with skin. Symptoms may include redness and itchiness. Repeated or prolonged skin contact may lead to dermatitis. Injection of oil under the skin may result in serious injury. Seek medical attention at once.
<b>Eye</b>	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.

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### 4. FIRST AID MEASURES

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<b>Inhalation</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
<b>Skin</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Injection of oil under the skin may result in serious injury. Seek medical attention at once.
<b>Eye</b>	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
<b>First Aid Facilities</b>	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**    Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing.

**Specific Methods**        Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak.

**Hazardous Combustion Products**    Depending on combustion conditions, a complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

**Precautions in connection with Fire**    Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

**Flash Point**            >220°C (OC)

**Flammable Limits UEL**        Not available

**Flammable Limits LEL**        Not available

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## 6. ACCIDENTAL RELEASE MEASURES

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Remove sources of ignition. Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing to minimise exposure. Cover spill with a generous amount of inert absorbent. Collect and place in a labelled disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a labelled disposable container. Prevent contamination of groundwater or surface water. This material may present environmental risks common to oil spills. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

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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. When dealing with this product, 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** Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purposes of storage and handling. 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.

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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** Where vapours, mists or spray is generated and exposure standards are exceeded, select and use respirators in accordance with AS/NZS 1715/1716. The use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels for each individual circumstance.

**Eye Protection** If possibility of eye contact exists safety glasses with side shields or goggles should be worn as described in Australian Standard AS/ANZ 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.

**Body Protection** Not normally required. Where splashing is possible suitable work wear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

**Eng. Controls** Ensure sufficient ventilation to keep airborne concentrations

below exposure limits. Local exhaust ventilation and/or enclosure of the work process is preferred in these cases.

**Biological  
Limit Values** No Biological limit available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** Clear mobile liquid

**Odour** Mineral oil odour

**Melting Point** <-33°C

**Boiling Point** >350°C

**Solubility in  
Water** Not soluble

**Specific  
Gravity (H2O=1)** 0.88

**pH Value** Not available

**Vapour Pressure** Not available

**Viscosity** 44 cSt @ 40°C  
6.7 cSt @ 100°C

**Flash Point** >220°C (OC)

**Flammable  
Limits LEL** Not available

**Flammable  
Limits UEL** Not available

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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.

**Materials to  
Avoid** Strong oxidising agents.

**Hazardous  
Decomposition  
Products** Carbon monoxide, carbon dioxide, aldehydes and ketones.

**Conditions to Avoid** Heat, direct sunlight, open flames or other sources of ignition.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information** The main constituents in this product are in accordance with Note L of the NOHSC Designated List of Hazardous Substances, the manufacturer has had the main constituents tested in accordance with IP346 and contain less than 3% polyaromatics.

**Inhalation** Inhalation of vapours or mists generated at elevated temperatures may cause respiratory system irritation and other pulmonary effects.

**Ingestion** Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.

**Skin** May cause irritating in contact with skin. Symptoms may include redness and itchiness. Repeated or prolonged skin contact may lead to dermatitis. Injection of oil under the skin may result in serious injury. Seek medical attention at once.

**Eye** May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.

**Chronic Effects** Prolonged or repeated contact may result in skin irritation leading to dermatitis.

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## 12. ECOLOGICAL INFORMATION

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**Environment Protection** Avoid contaminating waterways.

**Mobility** Not available

**Persistence / Degradability** Not available

**Ecotoxicity** Not available

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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

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## 15. REGULATORY INFORMATION

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**Risk Phrase**

**Safety Phrase** S23(2) Do not breathe vapour.  
S37/39 Wear suitable gloves and eye/face protection.

**Poisons  
Schedule** Not Scheduled

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## 16. OTHER INFORMATION

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**Contact  
Person/Point** 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.

**SDS History** MSDS reviewed: March 2007.

**Poisons  
Schedule** Not Scheduled

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End of MSDS

