

# Material Safety Data Sheet

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Infosafe No. LPV4S Issue Date : February 2006 ISSUED by PENRITEO

Product Name : SEMI FLUID GREASE

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** SEMI FLUID GREASE  
**Product Code** SEMI  
**Company Name** PENRITE OIL COMPANY P/L (ABN 005 001 525)  
**Address** 88 Lewis Road Wantirna South  
Victoria 3152 Australia  
**Emergency Tel.** 03 9801 0877 B.H  
**Telephone/Fax Number** Tel: 03 9801 0877  
**Recommended Use** A semi-fluid extreme pressure lubricant used in veteran car transmissions or as an alternative to oil lubrication in gearboxes and bearings where oil leakage is a problem, such as rack and pinion drives, crusher bearings, traction motors, and mining operations.

## 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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ingredients determined not to be hazardous	Not required	100 %

## 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 non-abrasive soap and water. If symptoms develop seek medical attention.  
**Eye** 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.  
**First Aid Facilities** Eye wash and normal washroom facilities.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Foam, carbon dioxide or dry chemical powder.  
**Hazards from Combustion Products** Carbon oxides, nitrogen oxides, sulphur oxides, hydrocarbons, aldehydes, acrolein, lithium compounds, smoke and irritating vapours as products of incomplete combustion.  
**Speical Protective Equipment for fire fighters** Full protective clothing and self-contained breathing apparatus.  
**Specific Methods** Cool fire exposed containers with water spray. Water may cause splattering. Material will float on water.  
**Specific Hazards** This product is combustible. Containers may explode in heat of fire.  
**Hazchem Code** None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable

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labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for Safe Storage</b>	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.
<b>Corrosiveness</b>	Not corrosive to copper.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	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.
<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS1940 - The storage and handling of flammable and combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements.
<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Wear gloves of impervious material such as chemically protective gloves. 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.
<b>Body Protection</b>	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark amber coloured, smooth/buttery, semi-fluid grease.
<b>Odour</b>	Mild grease like.

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<b>Melting Point</b>	Not available.
<b>Boiling Point</b>	Not available.
<b>Solubility in Water</b>	Insoluble.
<b>Specific Gravity</b>	0.8879 kg/L @ 15°C (Mineral Oil Blend)
<b>pH Value</b>	Not available.
<b>Vapour Pressure</b>	Negligible at ambient temperature and pressure.
<b>Vapour Density (Air=1)</b>	Not available.
<b>Viscosity</b>	Mineral Oil Blend: 324.9 cSt @ 40°C 23.8 cSt @ 100°C
<b>Volatile Component</b>	Non-volatile.
<b>Pour Point</b>	- 15°C (Mineral Oil Blend)
<b>Dropping Point</b>	198°C
<b>Flash Point</b>	234°C
<b>Flammability</b>	Combustible liquid.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flammable Limits - Lower</b>	Not available.
<b>Flammable Limits - Upper</b>	Not available.
<b>Penetration</b>	467 (60 strokes)

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, direct sunlight, open flames or other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	May release carbon oxides, nitrogen oxides, sulphur oxides, hydrocarbons, diphenylamine, alkenes, lithium compounds, acrolein, aldehydes, hydrocarbons, smoke and irritating vapours when heated to decomposition.
<b>Hazardous Reactions</b>	Reacts with incompatibles.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	No toxicity data available for this product.
<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 cause redness, itching and irritation.
<b>Eye</b>	May cause eye irritation, tearing, stinging, blurred vision, and redness.
<b>Chronic Effects</b>	Prolonged or repeated contact may cause skin irritation characterised by dermatitis or oil acne.

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## 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	No ecological data is available for this material.
<b>Persistence / Degradability</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environ. Protection</b>	Do not allow product to enter drains, waterways or sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Dispose of waste according to federal, EPA and state regulations.

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## 14. TRANSPORT INFORMATION

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

**U.N. Number** None Allocated

**Proper Shipping Name** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

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## 15. REGULATORY INFORMATION

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**Poisons Schedule** Not Scheduled

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## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Reviewed: January 2006  
MSDS Supersedes: August 2000

**Contact Person/Point** TITLE: Technical and Marketing Director  
TELEPHONE NUMBER: 03 9801 0877 B.H  
...End Of MSDS...