

Material Safety Data Sheet

CS: 1.4.18

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Infosafe No™ LPWWV Issue Date : October 2007 ISSUED by PENRITEO CS: 1.4.18

Product Name : **GRAPHITE GREASE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name GRAPHITE GREASE
Product Code GRGR
Company Name PENRITE OIL COMPANY P/L (ABN 25005 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 For lubrication in moderate temperature applications.

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

Ingredients	Name	CAS	Proportion
	Ingredients determined not to be hazardous	-	60-100 %
	Graphite	7782-42-5	10-30 %

Other Information Also contains paraffinic oils.

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. Seek medical attention.
Skin Wash affected area thoroughly with 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 Normal washroom facilities.
Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use water fog, dry chemical, foam or carbon dioxide.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, aldehydes, ketone, nitrogen or sulphur.
Special Protective Equipment for fire fighters Fire fighters should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove all sources of heat. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimise inhalation, skin and eye exposure. Collect/scrape up material avoiding vapour generation, then transfer material to a suitable container. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. This material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use in a well ventilated area. 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

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Conditions for Safe Storage	standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities. Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Have appropriate fire extinguishers available in and near the storage area.
Storage Temperatures	Recommended storage temp: 50°C

8. EXPOSURE CONTROLS/PERSONAL 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/m ³ . As with all chemicals, exposure should be kept to the lowest possible levels. TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use with good general ventilation. If 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. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black buttery semi-solid.
Odour	Mild odour.
Melting Point	Not available.
Boiling Point	Not available.
Solubility in Water	Negligible.
Specific Gravity	Not available.
pH Value	Not applicable.
Vapour Pressure	Low.
Vapour Density (Air=1)	Not available.
Viscosity	11 - 18 cSt @ 100°C
Dropping Point	95°C
Flash Point	Not available.
Flammable Limits - Lower	Not available.
Flammable Limits - Upper	Not available.
Other Information	Penetration unworked: 220 - 250 @ 25°C Penetration worked: 220 - 250 @ 25°C

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidisers.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, aldehydes, ketone, nitrogen or sulphur.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data is available for this product.
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 cause redness, itching and irritation.
Eye	May cause eye irritation, tearing, stinging, blurred vision, and redness.
Chronic Effects	Not available.
Carcinogenicity	Not listed as carcinogenic by IARC.
Other Information	Injection under the skin of materials of this type may result in serious injury. Seek immediate medical attention should an accident like this occur.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No specific ecological data available for this product.
Persistence / Degradability	Expected to be resistant to biodegradation.
Mobility	Not available.
Environ. Protection	Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste, according to federal, EPA and state regulations.
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14. TRANSPORT INFORMATION

Transport Information	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

Poisons Schedule	Not Scheduled
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16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS created: October 2007
Contact Person/Point	TITLE: Technical and Marketing Director TELEPHONE NUMBER: 03 9801 0877 B.H ...End Of MSDS...