

Material Safety Data Sheet

CS: 1.4.18

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Infosafe No™ LPX6I	Issue Date :March 2008	ISSUED by PENRITEO	CS: 1.4.18
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Product Name : **HEAVY DUTY AFAB 50% PREMIX**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	HEAVY DUTY AFAB 50% PREMIX
Product Code	HDAFAB50
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	Premixed anti freeze anti boil coolant.

2. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	R22 Harmful if swallowed.
Safety Phrase(s)	S2 Keep out of reach of children. S20 When using do not eat or drink. S24/25 Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Ethylene glycol	107-21-1	30-60 %
	Ingredients determined not to be hazardous	-	Balance

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 IMMEDIATE medical attention.
Skin	Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops, 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 station and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 131 126).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For small fires use dry chemicals, carbon dioxide, water spray or foam. For large fires use water spray, fog.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Precautions in connection with Fire Unsuitable Extinguishing Media	Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing should be worn. Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

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Emergency Procedures	Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Prevent contamination of groundwater or surface water. If this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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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 exposure without protection should be prevented in order to lessen the possibility of 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/PERSONAL PROTECTION

National Exposure Standards	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Ethylene glycol	104	40	52	20	
Biological Limit Values	No biological limit allocated.					
Other Exposure Information	As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.					
Engineering Controls	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.					
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					

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Hand Protection	Industrial Applications. Wear gloves of impervious material such as PVC, neoprene or nitrile 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.
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

Appearance	Green liquid.
Odour	Not available.
Melting Point	Not available.
Boiling Point	Not available.
Solubility in Water	Not available.
Specific Gravity	1.07 @ 15°C
pH Value	10.5
Vapour Pressure	Not available.
Vapour Density (Air=1)	Not available.
Flash Point	Not available.
Auto-Ignition Temperature	Not available.
Flammable Limits - Lower	Not available.
Flammable Limits - Upper	Not available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidising agents, acids, alkalis.
Hazardous Decomposition Products	Decomposition can result in the release of carbon dioxide and carbon monoxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicology data available for this product.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Harmful if swallowed. Ingestion of this product will 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	Toxic to kidneys and liver by prolonged exposure. Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
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Persistence /	Biodegradable.
Degradability	
Mobility	Miscible with water.
Environ. Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Poisons Schedule	S6
Hazard Category	Harmful

16. OTHER INFORMATION

Date of preparation	MSDS Created: March 2008
or last revision of	
MSDS	
Contact Person/Point	TITLE: Technical and Marketing Director
	TELEPHONE NUMBER: 03 9801 0877 B.H
	...End Of MSDS...

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