

# Material Safety Data Sheet

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Infosafe No. LPUKM Issue Date : June 2005 ISSUED by ENVIROOI

Product Name : ENVIROLUBE HD COOLANT 50

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

**Product Name** ENVIROLUBE HD COOLANT 50  
**Company Name** Enviro Oil Co of Australia  
**Address** 12 Tryon Road Lindfield  
NSW 2070 Australia  
**Emergency Tel.** 02 9416 5418; 24hr  
**Telephone/Fax Number** Tel: 02 9416 0628 Fax: 02 9416 2583  
**Recommended Use** Automotive radiator 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.  
S46 If swallowed, seek medical advice immediately and show this container or label.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ethylene glycol	107-21-1	30-60 %
	Ingredients determined not to be hazardous	Not required	Balance to 100%

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person from contaminated area and if irritation persists, seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.

**Ingestion** Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running 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 station and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

**Other Information** For advice, contact the Poisons Information Centre (Australia 131 126).

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use water, foam, carbon dioxide or dry chemical to extinguish fire.

**Hazards from Combustion Products** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Specific Hazards** Non combustible. However, following evaporation of aqueous component, the product residue will burn under fire conditions and emit toxic fumes.

**Hazchem Code** None Allocated

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

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Increase ventilation. Evacuate all unnecessary personnel. Wear protective clothing to minimise skin and eye exposure. If possible contain the spill. Place inert absorbent material onto spillage. Mop up material and place into the same container. If the spillage enters the waterways contact the

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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. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethylene glycol			127	50	Ceiling (vapour & mist)
<b>Biological Limit Values</b>	No biological limit allocated.					
<b>Engineering Controls</b>	Ensure sufficient ventilation to keep airborne concentrations below exposure limits. Mechanical exhaust ventilation may be required.					
<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. 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. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Green liquid.
<b>Odour</b>	Mild odour.
<b>Melting Point</b>	-37°C
<b>Boiling Point</b>	109°C
<b>Solubility in Water</b>	Miscible.
<b>Specific Gravity</b>	1.1 (15°C)
<b>pH Value</b>	7.8
<b>Vapour Pressure</b>	0.01 kPa* (@ 20°C)
<b>Vapour Density (Air=1)</b>	2.2*
<b>Flash Point</b>	Not applicable.

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<b>Auto-Ignition Temperature</b>	Not available.
<b>Flammable Limits - Lower</b>	3.2*
<b>Flammable Limits - Upper</b>	12.8*
<b>Kinematic Viscosity</b>	25cP (20°C)
<b>Other Information</b>	* = for ethylene glycol.

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<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>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Reactions</b>	Hazardous polymerisation will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Inhalation</b>	Inhalation of product vapours or mists may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Harmful if swallowed. Ingestion of this product will 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 and/or repeated skin contact with this product may cause drying and defatting, possibly leading to dermatitis.

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## 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	No data available for this specific material.
<b>Persistence / Degradability</b>	Ethylene glycol is readily biodegradable.
<b>Mobility</b>	No data available for this specific material.
<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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<b>Disposal Considerations</b>	Dispose of waste according to EPA, federal, state and local regulations.
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## 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>U.N. Number</b>	None Allocated
<b>Proper Shipping Name</b>	None Allocated
<b>DG Class</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>Packing Group</b>	None Allocated

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## 15. REGULATORY INFORMATION

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<b>Poisons Schedule</b>	S5
<b>Hazard Category</b>	Harmful
<b>AICS (Australia)</b>	All components in this product are listed on AICS (Australian Inventory of Chemical Substances).

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## 16. OTHER INFORMATION

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**Date of preparation**      MSDS Creation: June 2005.  
**or last revision of**  
**MSDS**

...End Of MSDS...