

# MATERIAL SAFETY DATA SHEET

**Product name:** Long Life Coolant Red

## 1. COMPANY DETAILS AND PRODUCT IDENTIFICATION

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 837 362)  
ADDRESS: PO Box 322 Castle Hill NSW 1765  
5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009

FAX NUMBER: (02) 9604 1611

EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Long Life Coolant Red

OTHER NAMES: Long Life Coolant Red Concentrate

MANUFACTURER'S PRODUCT CODE: HI8- 3250-

USE: Glycol based engine cooling system treatment

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information.

OTHER INFORMATION: Visit our website: [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)  
Email: hitecoils@hi-tecoils.com.au

## 2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: HAZARDOUS SUBSTANCE  
NON-DANGEROUS GOODS  
Harmful - Xn  
Hazard classification according to criteria of NOHSC.  
Dangerous goods classification according to Australian Dangerous Goods Code.

RISK PHRASE(S): R22 Harmful if swallowed  
S2 KEEP OUT OF REACH OF CHILDREN  
S24/25 avoid contact with skin and eyes  
S37/39 wear suitable gloves and eye protection  
S45 in case of accident or if you feel unwell, seek medical advice immediately

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not known to be a sensitiser.

TERATOGENICITY: No teratogenic effects known.

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## 2. HAZARDS IDENTIFICATION (CONT)

OTHER INFORMATION: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

## 3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

CHEMICAL CHARACTERISTICS: Liquid

INGREDIENTS:-

CHEMICAL ENTITY:	CAS No.	PROPORTION
Ethylene Glycol	107-21-1	>60%
Denatonium Benzoate	3437-33-6	<1%
Other ingredients determined not to be hazardous		to 100%

## 4. FIRST AID MEASURES

### HEALTH EFFECTS

**SWALLOWED:** If a large quantity is ingested seek immediate medical attention. Give water to wash out mouth. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.

**EYE:** Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Take care not to rinse contaminated water into non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**SKIN:** Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. If irritation occurs, seek medical attention. High pressure injection through the skin requires **URGENT** medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material).

**INHALED:** Remove victim from exposure to fresh air – avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.

**FIRST AID FACILITIES:** Normal washroom facilities are generally suitable. Ensure an eye wash station and safety shower is available and ready for use.

**ADVICE TO DOCTOR:** Treat symptomatically, for advice, contact the Poisons Information Centre 131 126

**OTHER INFORMATION:** Keep water and mild soap near work site.

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## 5. FIRE FIGHTING MEASURES

### FIRE/EXPLOSION HAZARD

HAZARDS OF USE/STORAGE:	Combustible – Non flammable.
HAZARDS FROM COMBUSTION PRODUCTS:	Combustible – oxides of carbon may be evolved after evaporation of all the water.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to so, remove containers from path of fire. Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.
SUITABLE EXTINGUISHING MEDIA:	Choice of extinguishing media should be made by what other materials are present.
PROTECTIVE MEASURES:	Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of combustion. Water spray may be used to cool down heat-exposed containers.
REACTIVITY:	May react with strong oxidising agents.

## 6. ACCIDENTAL RELEASE MEASURES

SPILLS & DISPOSAL: Slippery when spilt. Avoid accidents, clean up immediately.

**CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less):** Absorb or contain liquid with sand, earth or spill control material. Shovel up using non-sparking tools and place in a sound labelled sealable container for subsequent safe disposal. Place leaking containers in a sound labelled drum.

**CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L):** Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.

**PERSONAL PRECAUTIONS:** Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breathe vapours. Ventilate contaminated area thoroughly. Dispose of according to local regulations.

OTHER INFORMATION: **PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE:** Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable 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:** When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. Ensure high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking smoking or using the toilet.
- SAFE STORAGE CONDITIONS:** Store in a cool, dry, well ventilated area away from sources of heat or ignition. This product should be stored away from foodstuffs and strong oxidising agents. Keep containers closed at all times - check regularly for leaks.
- CORROSIVENESS:** Not corrosive.
- STORAGE REGULATIONS:** Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing.  
Keep containers closed when not in use.  
Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**NATIONAL EXPOSURE STANDARDS:** No exposure standard has been established for this product. NOHSC Exposure Standards:

<u>Occupational Exposure limits</u>	<u>Exposure Limits</u>			
	TWA	STEL	PEAK/CEILING	PEAK/CEILING
<u>Ingredient name:</u>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethylene glycol (vapour)	NOHSC 60	120		
Ethylene glycol	OSHA/PEL		50	125

- OTHER EXPOSURE INFORMATION:** Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL). No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC). However, the available exposure limits on the ingredients are given above.
- ENGINEERING CONTROLS:** Maintain concentration below recommended exposure limit. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or the Manufacturer's recommended exposure standard.
- RESPIRATORY PROTECTION:** A respirator is not normally required. Airborne concentrations should be kept at lowest level possible. If vapours, mists or dusts are generated and the recommended exposure limit for the product is exceeded, use appropriate AS/NZS 1715/1716 approved half –face filter respirator suitable for organic vapours or air supplied respirator is worn.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

	Air supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown
EYE PROTECTION:	Safety glasses, goggles or face shield as appropriate to AS/NZS 1337.
HAND PROTECTION:	Laminated film, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational Protective Gloves.
FOOTWEAR:	Industrial safety shoes.
BODY PROTECTION:	Suitable workwear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist.
HYGIENE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.
SPECIAL PROTECTIVE MEASURES:	The product will not burn unless preheated. Isolate from sources of heat, naked flames or sparks.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odour	Slight
Boiling Point	N/A,
pH Value (33% sol'n)	6.0 – 9.0
Vapour Pressure	N/A
Physical State	Liquid
Colour	Red-orange
Density	1.11-1.14
Flash Point	Non flammable

**Explosion Properties:** Not considered an explosion risk under normal conditions of use.

**Other Information:** These physical data and other properties do not constitute a specification.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerisation** Hazardous polymerisation reactions will not occur.

**Materials to Avoid** Strong oxidizers

**Hazardous Decomposition Products** Oxides of carbon

**Conditions to Avoid** Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.  
This material is combustible after evaporation of the aqueous component.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY DATA

The following results are for Ethylene Glycol

Acute Oral Toxicity	LD50 (Rat) 4700mg/kg Lowest lethal dose (human) 786mg/kg Estimated lethal dose (human) 100 ml
Acute Dermal Toxicity	LD50 (Rabbit) 9530mg/kg
Acute Inhalation Toxicity	(Rat) >5mg/kg

**SENSITIZATION** This product is not expected to be a sensitizer

**CHRONIC TOXICITY** Contains ethylene glycol. Repeated high ingested dosages of ethylene glycol in animal studies brain damage, kidney damage, degeneration of the liver and changes in blood chemistry. Similar effects may be caused in humans by repeated and/or prolonged exposure.

**CARCINOGENICITY** This product does not contain any substances that are listed as carcinogens.

**TERATOGENICITY** Ethylene glycol has been shown to produce teratogenic effects in mice when high doses were administered by ingestion.

### HUMAN HEALTH HAZARDS

#### – ACUTE

EYES	Can cause moderate irritation
SKIN	Can cause moderate irritation
INGESTION	Harmful if swallowed. Large quantities may cause kidney damage. Irritation of the gastrointestinal tract may occur with nausea and vomiting.
INHALATION	Not a likely route of exposure. Mists or vapours may be irritating to eyes, nose, throat and lungs
– CHRONIC	Contains mono ethylene glycol, which is toxic when swallowed. 100ml is considering a lethal dose for an adult. Repeated exposure to high doses by ingestion (animal studies) has caused kidney, liver and central nervous system damage

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY:	No data available for this material.
PERSISTENCE / DEGRADABILITY:	Ethylene glycol is classified as “readily” biodegradable according to the guidelines of the OECD. Ethylene glycol does not bioaccumulate.
MOBILITY:	No data available for this material.
ENVIRONMENT PROTECTION:	Do not allow material to enter drains or watercourses.

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## 13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Dispose of according to federal, E.P.A. and state regulations.

## 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.

## 15. REGULATORY INFORMATION

POISON SCHEDULE: S5.

PACKING & LABELLING: No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS: All components are listed.

## 16. OTHER INFORMATION

CONTACT PERSON/POINT: General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Material Safety Data Sheets are updated frequently. Please ensure you have a current copy.

LITERATURE REFERENCES:

- \* NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- \* NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- \* NOHSC: 10005 List of Designated Hazardous Substances.
- \* NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- \* NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- \* NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- \* NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- \* NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.

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## 16. OTHER INFORMATION (CONT)

- \* NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- \* SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- \* ADG: Australian Dangerous Goods Code
- \* MSDS of component materials.

LAST CHANGE:

Supersedes document issued: 3<sup>th</sup> August 2011  
Reason/s for revision: Minor adjustments.

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**END OF MSDS**