



SAFETY DATA SHEET

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Issue Date: 5 July 2017
Radiator Treatment
Version: 2

Product name: Radiator Treatment

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: Radiator Treatment

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: HI14-RT-300

USE: Liquid concentrate to control corrosion in automotive cooling systems.

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information

OTHER INFORMATION: Visit our website: www.hi-tecoils.com.au
Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS
Hazard classification according to criteria of NOHSC and GHS .
Dangerous Goods classification according to Australian Dangerous Goods Code.

POISON SCHEDULE: None allocated



SIGNAL WORD: **WARNING**



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2. HAZARDS IDENTIFICATION (CONT)

GHS HAZARD CLASSIFICATION:

ACUTE TOXICITY (ORAL): Category 4
SKIN IRRITATION: Category 3
EYE IRRITATION: Category 2B

HAZARD STATEMENTS: H302: Harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.

PREVENTION STATEMENTS: P102: Keep out of reach of children.
P262: Do not get in eyes, on skin, or on clothing.
P270: Do not eat, drink or smoke when using this product.
P281: Use personal protective equipment as required.

RESPONSE STATEMENTS: P353: Rinse skin or shower with water.
P362: Take off contaminated clothing and wash before reuse.
P301+P312: IF SWALLOWED: Call the POISONS INFORMATION CENTRE (131 126) or doctor if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice.
P337+P313: If eye irritation persists: Get medical advice.
P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE STATEMENTS: P404: Store in a closed container.

DISPOSAL STATEMENT: P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

Ingredients	CAS No	Conc,%	TWA (mg/m3)	STEL (mg/m3)
Hexanoic acid, 2-ethyl-, potassium salt	164-85-0	20-40	not set	not set
Ethylene glycol	107-21-1	<2.5	52	104
Tolytriazole	29385-43-1	<1	not set	not set
Water	7732-18-5	to 100	not set	not set

Note: Formulation calls for in-situ neutralisation of 2 Ethyl Hexanoic Acid by Potassium hydroxide which is added to slight excess to bring pH to 10-11. This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.



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4. FIRST AID MEASURES

GENERAL INFORMATION:

You should call the Poisons Information Centre on 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) if you feel that you may have been poisoned, burned or irritated by this product. Have this SDS with you when you call.

INHALATION:

First aid is not generally required. If in doubt, contact the Poisons Information Centre (131 126) or a doctor.

SKIN CONTACT:

Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

EYE CONTACT:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

INGESTION:

If swallowed, do NOT induce vomiting. Wash mouth with water and contact the Poisons Information Centre (131 126), or call a doctor.

NOTE TO PHYSICIAN:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product are likely to be irritating if inhaled.

EXTINGUISHING MEDIA:

Not combustible. Use extinguishing media suited to burning materials.

FIRE FIGHTING:

If a significant quantity of this product is involved in a fire, call the fire brigade.

FLASH POINT:

Does not burn.

UPPER FLAMMABILITY LIMIT:

Does not burn.

LOWER FLAMMABILITY LIMIT:

Does not burn.





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5. FIRE FIGHTING MEASURES (CONT)

AUTOIGNITION TEMPERATURE: Not applicable - does not burn.

FLAMMABILITY CLASS: Does not burn.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, butyl rubber. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

SAFE HANDLING: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

SAFE STORAGE: Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS 1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

SWA Exposure Limits

Ethylene glycol

TWA (mg/m³)

52

STEL (mg/m³)

104

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

VENTILATION:

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of fan is suggested.

EYE PROTECTION:

Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

SKIN PROTECTION:

Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

PROTECTIVE MATERIAL TYPES:

We suggest that protective clothing be made from the following materials: rubber, PVC, butyl rubber.

RESPIRATOR:

Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Bright green liquid

ODOUR:

Mild, characteristic glycol odour

BOILING POINT:

Approximately 100°C at 100kPa.

FREEZING/MELTING POINT:

Approximately 0°C.

VOLATILES:

Water component.

VAPOUR PRESSURE:

2.37 kPa at 20°C (water vapour pressure).

VAPOUR DENSITY:

As for water.

SPECIFIC GRAVITY:

1.00 at 25°C





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9. PHYSICAL AND CHEMICAL PROPERTIES

WATER SOLUBILITY:	Completely soluble in water.
pH:	10-11 (specification)
VOLATILITY:	No data.
ODOUR THRESHOLD:	No data.
EVAPORATION RATE:	As for water.
COEFF OIL/WATER DISTRIBUTION:	No data
AUTOIGNITION TEMP:	Not applicable - does not burn.

10. STABILITY AND REACTIVITY

REACTIVITY:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
CONDITIONS TO AVOID:	Keep containers tightly closed.
INCOMPATIBILITIES:	Strong oxidising agents.
FIRE DECOMPOSITION:	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Potassium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
POLYMERISATION:	This product will not undergo polymerisation reactions.



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11. TOXICOLOGICAL INFORMATION

TARGET ORGANS: There is no data to hand indicating any particular target organs.

CLASSIFICATION OF HAZARDOUS INGREDIENTS

Ingredient	Risk Phrases
Ethylene Glycol	No risk phrases at concentrations found in this product
• Acute toxicity - category 4	

POTENTIAL HEALTH EFFECTS

INHALATION:

SHORT TERM EXPOSURE: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

LONG TERM EXPOSURE: No data for health effects associated with long term inhalation.

SKIN CONTACT:

SHORT TERM EXPOSURE: This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.

LONG TERM EXPOSURE: No data for health effects associated with long term skin exposure.

EYE CONTACT:

SHORT TERM EXPOSURE: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

LONG TERM EXPOSURE: No data for health effects associated with long term eye exposure.

INGESTION:

SHORT TERM EXPOSURE: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

LONG TERM EXPOSURE: No data for health effects associated with long term ingestion.

CARCINOGEN STATUS:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.



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12. ECOLOGICAL INFORMATION

Insufficient data to be sure of status. This material might be harmful to aquatic organisms due to high pH. Do not contaminate waterways or surrounding environments.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. Does not burn.

14. TRANSPORT INFORMATION

ROAD & RAIL TRANSPORT:
ADG REQUIREMENT

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

MARITIME TRANSPORT:
IMO/IMDG REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT:
ICAO/IATA REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

POISON SCHEDULE:

Not scheduled.

PACKING & LABELLING:

No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS:

All components are listed or exempted.



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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.

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 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.
- * 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
- * SDS of component materials.

LAST CHANGE: Supercedes document issued: New Document
Reason/s for revision: Compliance with GHS requirements.

TN717050/1

END OF SDS