



SAFETY DATA SHEET

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Issue Date: 24 May 2023
HD Coolant HG 40
Version: 3

Product name: HD Coolant HG 40

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: HD Coolant HG 40

OTHER NAMES: HD Coolant HG 40 Concentrate

MANUFACTURER'S PRODUCT CODE: HI8- 3208

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
Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

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

POISONS SCHEDULE: S6

CLASSIFICATION: Acute Toxicity (Oral) Category 4,

GHS LABEL ELEMENTS



SIGNAL WORD: WARNING





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2. HAZARDS IDENTIFICATION (CONT)

HAZARD STATEMENT(S):	H302 Harmful if swallowed.
PRECAUTIONARY STATEMENT(S) PREVENTION:	P264 Wash all exposed external body areas thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
PRECAUTIONARY STATEMENT(S) RESPONSE:	P301+P312 IF SWALLOWED: Call the POISONS INFORMATION CENTER on 131126 or a doctor if you feel unwell. P330 Rinse mouth.
PRECAUTIONARY STATEMENT(S) STORAGE:	Not Applicable
PRECAUTIONARY STATEMENT(S) DISPOSAL:	P501 Dispose of contents/container in accordance with local regulations.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

SUBSTANCES: See section below for composition of mixtures.

INGREDIENTS:

CHEMICAL ENTITY:	CAS No.	PROPORTION
Ethylene Glycol	107-21-1	>90%
Inhibitors	Not available	<10%

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).





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4. FIRST AID MEASURES (CONT)

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. Keep water and mild soap near work site.
ADVICE TO DOCTOR:	Treat symptomatically, for advice, contact the Poisons Information Centre 131126

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, poisonous fumes may be emitted.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to do 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. Alcohol stable foam, dry chemical powder, BCF or carbon dioxide may be used.
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 and reducing agents e.g. chlorine bleaches, pool chlorine, nitrates, alkaline metals, oxidising acids as ignition may result.

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.





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6. ACCIDENTAL RELEASE MEASURES (CONT)

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 SDS. 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

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. Do not allow clothing wet with the product to remain in contact with skin.

SAFE STORAGE CONDITIONS:

Do not store in aluminium or galvanised containers: use steel cans or the original plastic containers. Store in a cool, dry, well ventilated area away from sources of heat or ignition. This product should be stored away from foodstuffs, strong oxidising agents and strong acids and bases. 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 and reducing 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.





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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Ingredient Data

Ingredient	TWA	STEL	Peak	Source
Ethylene glycol (vapour)	20ppm	40ppm	Not Available	Australia Exposure Standards

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Ethylene glycol	10 ppm	40 ppm	60 ppm

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. 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.





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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

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

COLOUR:	Violet
PHYSICAL STATE:	Liquid
ODOUR:	Not Available
MELTING POINT / FREEZING POINT:	<-18°C
BOILING POINT:	>160°C
pH AS SUPPLIED:	Approximately 8
VAPOUR PRESSURE (kPa):	Negligible.
RELATIVE DENSITY (WATER = 1):	1.122-1.125
FLASH POINT:	>124°C
UPPER EXPLOSIVE LIMIT (%):	15.1
LOWER EXPLOSIVE LIMIT (%):	3.4
AUTO IGNITION TEMPERATURE:	420°C
VAPOUR DENSITY (AIR = 1):	2.14
SOLUBILITY IN WATER:	Miscible
VISCOSITY (cSt):	20-30 @ 20°C
VOC g/L:	1000.11
OTHER INFORMATION:	These physical data and other properties do not constitute a specification.





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10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERISATION:	Hazardous polymerisation reactions will not occur.
MATERIALS TO AVOID:	Strong oxidising and reducing agents e.g. chlorine bleaches, pool chlorine, nitrates, alkaline metals, oxidising acids.
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.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

FOR ETHYLENE GLYCOL:	Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body water. In most mammalian species, including humans, ethylene glycol is initially metabolised by alcohol. [Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effect or in rats (birth defects). Mutagenic to rat cells.
INHALED:	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of vapour is more likely at higher than normal temperatures.
INGESTION:	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. The toxic effects of glycols (dihydric alcohols), following ingestion are similar to those of alcohol, with depression of the central nervous system (CNS), nausea, vomiting and degenerative changes in liver and kidney.
SKIN CONTACT:	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (non-allergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.





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11. TOXICOLOGICAL INFORMATION (CONT)

EYE: The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

CHRONIC: Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. There is some evidence to provide a presumption that human exposure to the material may result in impaired fertility on the basis of: some evidence in animal studies of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary non-specific consequence of other toxic effects. There is some evidence that human exposure to the material may result in developmental toxicity. This evidence is based on animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects. Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).

TOXICITY

HD COOLANT HG 40:

ORAL (RAT) LD50: >2000 mg/kg

IRRITATION

Not Available

ETHYLENE GLYCOL:

DERMAL (RABBIT) LD50: 9530 mg/kg
INHALATION (RAT) LC50: 50.1 mg/L/8 hr
ORAL (RAT) LD50: 4700 mg/kg

EYE (RABBIT): 100 mg/1h - mild
EYE (RABBIT): 12 mg/m³/3D
EYE (RABBIT): 1440mg/6h-moderate
EYE (RABBIT): 500 mg/24h - mild
SKIN (RABBIT): 555 mg(open)-mild

12. ECOLOGICAL INFORMATION

DO NOT DISCHARGE INTO SEWERS OR WATERWAYS.

TOXICITY:

Ingredient	Endpoint	Test Duration (hr)	Species	Value
Ethylene glycol	LC50	96	Fish	2284.940mg/L
Ethylene glycol	EC50	48	Crustacea	>100mg/L
Ethylene glycol	EC50	96	Algae or other aquatic plants	3536mg/L
Ethylene glycol	EC50	Not Applicable	Crustacea	=10mg/L
Ethylene glycol	NOEC	72	Algae or other aquatic plants	>100mg/L

PERSISTENCE AND DEGRADABILITY:

Ingredient	Persistence: Water/Soil	Persistence: Air
Ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)





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12. ECOLOGICAL INFORMATION (CONT)

BIOACCUMULATIVE POTENTIAL:

Ingredient	Bioaccumulation
Ethylene glycol	LOW (BCF = 200)

MOBILITY IN SOIL

Ingredient	Mobility
Ethylene glycol	HIGH (KOC = 1)

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:	Dispose of according to federal, E.P.A. and state regulations. Recycle where possible. Bury or incinerate at an approved site.
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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.
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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.
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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.
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TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE:	Not Applicable.
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15. REGULATORY INFORMATION

POISON SCHEDULE:	S6.
PACKING & LABELLING:	No special packaging or labelling requirements.
AUSTRALIAN INVENTORY STATUS:	All components are listed.





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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.
- * Safe Work Australia: 2016 Preparation of Safety Data Sheets for Hazardous Chemicals.
- * 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: 9 August 2019
Reason/s for revision: Minor editorial changes to comply with GHS requirements.

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END OF SDS

