



## PRODUCT DATA SHEET

### HD COOLANT HG 40

#### PRODUCT DESCRIPTION

**HD Coolant HG 40** is an engine coolant concentrate based on ethylene glycol which contains a corrosion inhibitor package with salts of organic acids and silicates. It is a silicated OAT product, free of nitrites, amines, phosphates and borates and it must be diluted prior to use with good quality water, the ideal dilution is 1:1 for optimum protection.

**HD Coolant HG 40** was developed to protect car, truck and bus engines of both ferrous and aluminium construction against freezing, overheating and corrosion. It contains a blend of inhibitors designed to give a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads, water pumps and heater cores.

**HD Coolant HG 40** has been formulated for use in the cooling systems of petrol and diesel engines of trucks, buses, off-road equipment, stationary engines and ships. Care should be taken with heavy-duty diesel equipment if using coolant filters pre-treated with dichromates. Dichromates can react to give a brownish mud-like precipitate. **HD Coolant HG 40** is safe to use with standard hoses, gaskets, clamps and fittings.

#### APPLICATIONS

**HD Coolant HG 40** meets the requirements of the Australian Standard AS 2108-2004 for Type A Engine Coolants in addition to the performance requirements of ASTM D3306, D4985 and BS 6580:2010 standards.

**HD Coolant HG 40** may be approved to the MAN specification **MAN 324 Type Si-OAT**.

#### SPECIFICATIONS

**HD Coolant HG 40** meets or exceeds the performance requirements of the following specifications:

AS2108-2004 Type A	SAE J1034
ASTM D3306 and D4985	BS6580:2010
JIS K2234:2006	China GB 29743-2013, SH 0521-1999
CUNA NC 956-16	SANS 1251:2005
German Army TL 6850-0038/1	ONORM V 5123
MAN Type 324 Si-OAT and NF	KHD H-LV 0161 0188
Liebherr Minimum LH-01-COL3A	Cummins 14603
Ford WSS-M97B51-A1	Ford WSS-M97B44-D
John Deere JDM H 24	GM6277M and B 040
BMW N 600 69.0	Opel/General Motors B 040 0240
MTU MTL 5048	Mercedes-Benz DBL 7700.20, page 325.0, 325.5 and 325.6
Saab 6901599	Leyland BLS.22.AF.01
Chrysler MS-9769	Irizar S Coop
Scania	Deutz DQC CC-14
VW/Audi/Seat/Skoda/Lamborghini/Bentley/Bugatti/Ducati TL 774-G	
Porsche for 911, Boxster, Cayman, Cayenne, Panamera	

Always consult your vehicle owner's manual for the manufacturer's recommendations.





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### PERFORMANCE FEATURES

Features of **HD Coolant HG 40** include:

- Reduces corrosion of all metals in the engine cooling system.
- Inhibits the formation of scale deposits.
- Provides anti-freeze and anti-boil protection.
- Limits the foaming that can cause water pump cavitation.
- Extends the period between coolant change outs.
- Minimises volume of spent coolant that has to be disposed of.
- Helps to maintain cooling systems in an "as new" condition that promotes maximum efficiency.
- Maximises fuel economy by keeping the engine at the optimum operating temperature.

**Anti-freeze Protection (50% dilution):** Below -37°C  
**Anti-boil Protection (50% dilution):** Above 129°C

### INSTRUCTIONS FOR USE

**Before treatment, pre-clean the cooling system by:**

Drain the existing coolant and chemically clean the system to remove any rust, dirt, oil and built-up residue. Use a radiator cleaner to clean the system effectively and thoroughly.

#### **Initial Dosage:**

Dilute **HD Coolant HG 40** to a 50% solution with good clean water and add to the cooling system. In most cases tap water is suitable. Diluent water should have the following characteristics:

Water Hardness            0 – 3.6 mmol/L  
Chloride Content:        Max 100 ppm  
Sulfate content:            Max 100 ppm

#### **Preventative Maintenance:**

Never top up with water as this will dilute the coolant. Always top up with **HD Coolant HG 40** diluted to 50%.

**Light commercial and passenger vehicles:** Service interval of the **HD Coolant HG 40** is 5 years or 250,000 km, whichever comes first.

**Heavy Duty Diesels:** Service interval of the **HD Coolant HG 40** is 5 years or 1,000,000 kms, whichever comes first.

### STORAGE STABILITY

**HD Coolant HG 40** has a shelf life of at least three years when stored in the original closed air-tight container at temperatures below 30°C. Do not use galvanized containers for storage as they may corrode.

### HANDLING

The usual precautions for handling chemicals together with the information and advice contained in the Safety Data Sheet should be observed. Avoid contact with skin.



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### **COMPATIBILITY**

Most coolant blends are based on carefully balanced mixtures of various corrosion inhibitors. Mixing of coolants with different inhibitor packages can lead to loss of corrosion protection. **HD Coolant HG 40** should therefore not be mixed with silicate free, OAT based or any other coolants.

### **TYPICAL PROPERTIES**

<b>Property</b>	<b>Results</b>
Appearance	Violet liquid
Density at 20°C (kg/m <sup>3</sup> )	1.123 – 1.126
Boiling point (°C)	> 160
Flash Point (°C)	> 120
pH value	8.2 – 8.6
Water content (%)	Maximum 3.0
Reserve Alkalinity (ml)	8.0 – 11.0

**Available in:** 200 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au). Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at [www.hi-tecoils.com.au](http://www.hi-tecoils.com.au)"

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