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## PRODUCT DATA SHEET

### PREMIUM BLUE COOLANT CONCENTRATE

#### PRODUCT DESCRIPTION

**Hi-Tec Premium Blue Coolant Concentrate** is a nitrite free engine coolant concentrate based on ethylene glycol. It contains a hybrid corrosion inhibitor package with salts of organic acids and silicates. **Hi-Tec Premium Blue Coolant Concentrate** is free of amines and phosphates.

**Hi-Tec Premium Blue Coolant Concentrate** was developed to protect car, truck and bus engines of both ferrous and aluminium construction against corrosion and frost damage. It contains a blend of inhibitors designed to give a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads and water pumps.

**Hi-Tec Premium Blue Coolant Concentrate** meets the requirements of the Australian Standard AS 2108-2004 for Engine Coolants Type A in addition to the performance requirements of both the ASTM D 3306 and BS 6580:1992-standards.

#### APPLICATIONS

**Hi-Tec Premium Blue Coolant Concentrate** exceeds the performance requirements of the Australian Standard AS 2108-2004 as a "Type A" Coolant. **Hi-Tec Premium Blue Coolant Concentrate** is suitable, after dilution to 50%, as an initial fill, complete fill, top-up, or to fill from empty, where "Type A" Premixed Coolant is specified.

**Hi-Tec Premium Blue Coolant Concentrate** 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 plus glycol and/or additional treatment can give a brownish silicate precipitate (mud-like). Where dichromates are not used, no problem exists. **Hi-Tec Premium Blue Coolant Concentrate** is safe to use with all hoses, gaskets, clamps and fittings used in standard cooling systems.

#### SPECIFICATIONS AND CERTIFICATES

**Hi-Tec Premium Blue Coolant Concentrate** meets or exceeds the following demanding performance requirements:

BMW N 600 69.0	German Army TL 6850-0038/1
KHD H-LV 0161 0188	Mercedes-Benz DBL 7700.20, page 325.0
MTU MTL 5048	Opel/General Motors B 040 0240
Saab 6901599	VW/Audi/Seat/Skoda TL 774-C

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

**Hi-Tec Premium Blue Coolant Concentrate** should not be mixed with silicate free, OAT engine coolants.



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## PRODUCT DATA SHEET

### PERFORMANCE FEATURES

- Reduces corrosion of all metals in the engine cooling system.
- Prevents scale deposits.
- Provides anti-freeze and anti-boil protection.
- Prevents foaming that can cause water pump cavitation.
- Extends the period between coolant changes.
- Minimises volume of spent coolant that has to be disposed of.
- Maintains cooling systems in an “as new” condition that promotes maximum efficiency by the reduction of deposits, corrosion and foaming action.
- Maximises fuel economy by keeping the engine at the optimum operating temperature.

**Anti-freeze/Anti-boil Protection (50% Concentration):** Min Temp -37°C, Max Temp 129°C

### INSTRUCTIONS FOR USE

**Hi-Tec Premium Blue Coolant Concentrate** should not be mixed with silicate free, OAT engine coolants or any other brand of coolants or inhibitors.

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

Draining the existing coolant and chemically cleaning 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:**

**Hi-Tec Premium Blue Coolant Concentrate** should be dosed to the cooling system at a 50% concentration rate and clean tap water (maximum hardness 3.6 mmol/L).

#### **Preventative Maintenance:**

Never top up with water as this will dilute the coolant. Always top up with a 50% mixture of **Hi-Tec Premium Blue Coolant Concentrate** and clean tap water (maximum hardness 3.6 mmol/L).

#### **Light Commercial and Passenger Vehicles:**

There is no need to replenish inhibitor during the life of the coolant. Coolant should be drained and replaced within 5 years or 200,000 kms, whichever comes first.

#### **Heavy Duty Diesels:**

There is no need to replenish inhibitor during the life of the coolant. Coolant should be drained and replaced every 5 years or 1,000,000 kms, whichever comes first.

### SERVICE

On-site technical assistance can be provided to implement and evaluate a treatment program using **Hi-Tec Premium Blue Coolant Concentrate**.

The technical support of the Hi-Tec laboratory is also available as an integral part of the supply of all Hi-Tec products.





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### FEATURES

**Hi-Tec Premium Blue Coolant Concentrate** premixed coolant meets or exceeds the following tests: -

- \* ASTM D1384 - Glassware Corrosion Test
- \* ASTM D1881 - Glassware Foaming Test
- \* ASTM D2570 - Simulated Service Corrosion Test
- \* ASTM D4340 - Hot Surface Aluminium Corrosion Test

It also complies with ASTM's D2809, D1287, D1121, D3634; results vary on individual batches manufactured.

### QUALITY CONTROL

The above data represent average values at the time of going to press of this data sheet. They cannot be regarded as specified data. Specified product data are issued as a separate product specification.

### STORAGE STABILITY

**Hi-Tec Premium Blue Coolant Concentrate** has a shelf life of at least three years when stored in originally closed, air-tight containers at temperatures of maximum 30 °C. Do not use galvanized containers for storage because 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.

### COMPATABILITY WITH OTHER COOLANTS

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. **Hi-Tec Premium Blue Coolant Concentrate** should therefore not be mixed with silicate free, OAT engine coolants.

### TYPICAL PROPERTIES

Property	Method	Results
Appearance	Visual	Blue liquid
Density at 20°C (kg/m <sup>3</sup> )	DIN 51 757/4	1.121 - 1.123
Refractive index at 20°C	DIN 51 423/2	1.432 - 1.434
Boiling point (°C)	ASTM D 1120	≥ 165
Flashpoint (°C)	ISO 2592	> 120
pH value	ASTM D 1287	7.1 – 7.3
Reserve alkalinity, M/10 HCl ( ml)	ASTM D 1287	13 - 15
Water content (%)	DIN 51 777/1	Max 3.5
Ash Content (%)	ASTM D 1119	Max 1.5





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## PRODUCT DATA SHEET

**Available in:** 200 Litres and 20 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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