

# Premix 50-N

## Ready to Use Extended Life Antifreeze / Coolant

### PRODUCT OVERVIEW

**PrixMax Premix 50-N** is a ready to use, premium long life anti-freeze and anti-boil coolant, specifically formulated for heavy duty cooling system applications that require a nitrite inhibited coolant. PrixMax's advanced proprietary Nitrited Organic Additive Technology (NOAT) carboxylate formulation will deliver complete cooling system protection for on-road and off-road heavy duty engines. Pre-diluted with demineralised water, this coolant can be poured directly into the cooling system as a complete service refill or top-up, and is ideal for use where good quality water is not available.

### PRODUCT BENEFITS

- Contains nitrites and molybdates for additional cylinder liner protection
- Outstanding aluminium corrosion protection
- Extended service life of up to 8 years, 1,200,000kms or 15,000 hours (whichever comes first) in heavy duty engines with no extender required
- For use where the OEM requires a nitrite inhibited product meeting TMC RP329 (eg Cat® EC-1)
- Suitable for mixed fleets where heavy duty and light trucks are present
- Protects against winter freeze up and minimises the chance of summer boil over
- Maximises water pump life (no silicates)
- Improved hard water stability (no silicates or phosphates)
- No silicate dropout or gel formation during use or storage
- Excellent heat transfer properties
- Outstanding hot surface aluminium protection in modern engines
- Superior protection in modern, hotter-running engines. This is particularly important for new emission engines, especially those with EGR
- Compatible with conventional anti-freeze and most factory-fill inhibited glycol coolants
- Ready to use – eliminates mixing errors and ideal for areas with poor water quality

### APPLICATIONS

PrixMax Premix 50-N is recommended for use in the following applications:

- Heavy duty engines where the OEM recommends a silicate free, long life coolant that contains nitrites
- Mixed fleets where both heavy duty and light duty trucks are present
- Stationary engine applications

- Marine cooling systems where freeze protection is needed and a nitrite containing coolant is recommended

### SERVICE LIFE

Equipment Type	Maximum Service Life*
Heavy Duty Engines (on-road and off-road)	8 YEARS or 1,200,000KMS or 15,000 HOURS
Marine and Stationary Engines	8 YEARS or 32,000 HOURS

\*Whichever comes first, provided a complete flush and fill is performed, the product is not diluted and specified use and maintenance directions followed. Routine visual inspections, coolant top-off and annual coolant testing are recommended to ensure maximum service life

Service life intervals can be extended when combined with our Coolcheck® scheduled laboratory coolant analysis service.

### PERFORMANCE STANDARDS AND TESTING

PrixMax Premix 50-N meets AS 2108-2004 Engine Coolant Type A and is recommended for use in, or where the following performance standards or specification requirements are cited:

- ASTM D3306, D4985 and D6210
- TMC RP329
- Caterpillar EC-1
- Cummins CES 14603
- Deutz
- Freightliner and Western Star
- GE - Jenbacher Stationary Natural Gas Engines
- Hino
- International
- Isuzu
- Kobelco
- Komatsu
- MAN
- MTU 4000 Series Engines
- Navistar
- PACCAR (Kenworth and DAF)
- Scania
- Volvo and Mack Truck
- Wärtsilä Stationary Diesel Engines
- Waukesha Stationary Natural Gas Engines
- White-Superior Stationary Natural Gas Engines
- Meets the phosphate free requirements of European manufacturers
- Meets the silicate free requirements of Japanese manufacturers

Where a nitrite free product is required by the engine manufacturer, we recommend the use of **PrixMax MEG95**, which meets the requirements of TMC RP338 for extended service interval coolants. For further information on this product, please contact us.

The PrixMax R&D Department located at our ISO 9001:2008 and ISO 14001:2004 accredited manufacturing facility in Victoria routinely runs all of the ASTM tests including the D2570, D2809, D4340 and D1384 tests that are required for the ASTM D6210 Heavy Duty Coolant Specification for product development and Quality Control purposes. This ASTM standard is a benchmark performance standard for Caterpillar, Cummins, Detroit Diesel, Mack, Navistar and other USA-based heavy duty engine manufacturers.

## TECHNICAL CHARACTERISTICS

Property	Method	Typical Results
Colour		Red
pH	ASTM D1287	8.4
Density, g/ml, 20°C	ASTM D1122	1.07
Freezing Point °C		-37
Storage Stability		> 2 years

Technical Characteristics are typical of those obtained with normal production tolerance. Variations in product typical results are to be expected during normal manufacture.

## MAINTENANCE

### Recommended coolant concentrations

This product is designed to be dosed neat to the cooling system. **Do not dilute with water.**

The relationship between dosage rate and freezing/boiling protection offered by PrixMax Premix 50-N is illustrated as follows:

PrixMax Premix 50-N	Water	Freeze Protection	Boil Protection*
1 part	N/A	-37°C	129°C

\*with a 103 kPa radiator pressure cap

### General

- For true long-life protection, do not mix PrixMax Premix 50-N with other coolant products as the extended life benefits will be reduced. PrixMax recommends that this product not be diluted by more than 15% with other coolant/antifreeze formulations.
- When changing to PrixMax Premix 50-N always start off with a clean coolant system using PrixMax Radiator Flush or similar commercial cleaner at the change interval if previously using conventional coolants. After draining the cleaner, flush thoroughly with clean water. Inspect the cooling system. Make necessary repairs and tighten all hose connections.
- Always dispose of the used coolant in accordance with local, state and federal guidelines.

- Full technical support of the PrixMax laboratory is available through our comprehensive Coolcheck® scheduled coolant analysis program, which at least annually determines the overall condition of the coolant and cooling system.
- A basic coolant maintenance check every oil change or 250 service hours can be performed using PrixMax Coolant Test Strips or a hand-held glycol refractometer to identify problems with maintenance procedures and operational practices.

## Mixing

- PrixMax Premix 50-N is compatible with most conventional coolants and can be used for top-up of other coolant/antifreeze formulations. If the product is to be mixed with some heavy duty diesel coolants the user must continue to add SCAs for heavy-duty service until the next coolant change-out. Before mixing PrixMax Premix 50-N with other coolants contact the Coolcheck® laboratories.
- The PrixMax Customer Service & Technical Training Group provides specialist advice on the maintenance of engine cooling systems and coolant products application support.

## STORAGE AND HANDLING

PrixMax Premix 50-N engine coolant should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimised.

Exposure of the coolant in translucent packages to direct sunlight can degrade the dyes present in the coolant, and result in fading of the colour or discolouration over time. This process can be accelerated if coupled with high ambient temperatures. The colour change will not affect the performance of the coolant only the appearance. Therefore coolant in translucent packages should be stored INDOORS.

Provided the product is stored in accordance with good practice as above in unopened, new containers, the coolant has a shelf life of up to 8 years. The use of galvanised steel is not recommended for any part of the storage/mixing process.

## PACK SIZES

Part No	Pack Size
PMX50N-P20	20 litre
PMX50N-D205	205 litre
PMX50N-B1000	1,000 litre

Please contact us for further enquiries.

## TOXICITY AND SAFETY

**Warning:** PrixMax Premix 50-N contains ethylene glycol, which is harmful or fatal if swallowed. Avoid eye or skin contact. For advice, contact a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor at once. If swallowed, do NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor, or for at least 15 minutes. Seek medical attention if irritation persists.

Further ENVIRONMENT, HEALTH and SAFETY Information is available on this product in the **Safety Data Sheet (SDS)**. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal.

To obtain the SDS for this product, please contact us.

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