

# Viva Energy HD Premium N

## Antifreeze/Coolant Pre-Diluted 50/50



### Description

**Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 ready to use fully formulated extended life heavy duty ethylene glycol antifreeze coolant.**

The product is an Organic Acid Technology (OAT) - hybrid coolant boosted with borate, nitrite, nitrate, molybdate and silicate inorganic corrosion inhibitors. It is a low silicate, phosphate-free, and amine-free coolant. It is suitable for heavy duty applications without supplemental coolant additives (SCAs) during the initial fill. Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 is ready-to-use and requires no further dilution.

### Performance Features

- **All-climate year round performance.** As sold Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 provides freeze protection to -37°C and boilover protection to 129°C (with the use of a 103.4 kPa pressure cap).
- **Extended life capability.** Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 has the potential to deliver extended life of up to 12,000 hour or 1,000,000km in heavy duty applications under normal operating conditions as long as the coolant is checked at regular intervals after 6,000 hrs or 500,000kms and kept in good condition with the supplemental coolant additive (SCA) levels in line with the OEM's requirements.
- **Field compatibility.** Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 is miscible and compatible with other engine coolant (antifreeze); although to get the best performance from the extended life capabilities and the time between SCA additions, it is always recommended to not dilute Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 with other coolants or water. It is also compatible with standard heavy duty SCAs and coolant filters. As sold it is ready for use - do not add water.

### Applications

- **Heavy duty gasoline or diesel engine antifreeze.** Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 is an amine and phosphate free fully formulated extended life engine coolant suitable for automotive and heavy duty gasoline and diesel engines found in on-road, off-road, marine, farm, mining and construction equipment.
- **Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50** does not require a charge of supplemental coolant additives (SCAs) during the initial fill or if the system is drained and fully charged with new coolant product. It is recommended in diesel applications that the coolant be checked frequently and SCAs replenished to comply with the engine's OEM recommendations.
- **Specifically formulated to protect cylinder liners from pitting in heavy duty applications.** The low silicate level also provides aluminium compatibility for use in both light and heavy duty applications, making it highly suitable for mixed fleets (light duty as well as heavy duty gasoline and diesel engines).
- Advice on applications not covered here may be obtained from your Viva Energy Technical Help Desk.

### Health, Safety and Environment

Viva Energy HD Premium N Antifreeze/Coolant Pre-Diluted 50/50 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained. Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from the Viva Energy Technical Help Desk.

**Protect the environment.** Take used coolant to an authorised collection point. Do not discharge into drains, soil or water.

**Handling and protective measures.** The usual precautions for handling chemicals must be observed. In particular the place of work must be well ventilated, the skin protected and safety glasses worn at all times.

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Avoid contact with the skin. This product contains a bitterant reducing the chance of accidental ingestion. The product is based on monoethylene glycol and should be kept from children and animals to prevent exposure.

**Storage requirements.** Store at ambient temperatures, limit periods of exposure to temperatures above 35°C.

**Shelf life.** When stored under cover – away from moisture and direct sunlight – this product should be suitable for use for up to two years after manufacture.

### Specifications / Approvals

#### Meets or exceeds performance requirements of:

- ASTM D3306, D6210, D7583
- AS/NZS 2108.2004 Type A
- Chrysler MS-9769
- MTU MTL 5048
- SAE J814
- TMC RP 364

#### Recommended and suitable for use with:

- Caterpillar
- Cat Stationary Engine (Gas/Diesel)
- CNHi MAT 3720/3620
- Cummins 14603/14439/3666132
- DDC 7SE 298
- Deutz DQC CA-14
- Ford WSS-M97B51-A1
- Freightliner 48022880
- GM 1825M, 1899M
- International Truck
- JCB STD00088
- John Deere JDM H24
- Mack STD 418-0003
- MAN 324 N
- Navistar MPAPS B-1 Typ III
- PACCAR

For further information regarding equipment approvals and recommendations contact the Viva Energy Technical Help Desk.

### Typical Physical Characteristics

Properties		Methods	Premium HD Antifreeze/Coolant Concentrate
Appearance, visual colour			Green
Ash Content	% w/w	ASTM D1119	2.5 max
Freeze Point (as sold)		ASTM D1177	-37°C
pH (as sold)		ASTM D1287	7.6 – 8.6
Reserve Alkalinity	ml 0.1N HCL	ASTM D1121	3.0 min
Specific Gravity @15.6°C	kg/L	ASTM D1122	1.070 – 1.080

These characteristics are typical of current production. Whilst future production will conform to Viva Energy's specification, variations in these characteristics may occur.

### Technical Help Desk

Phone	1300 134 205
Email	technicalhelpdesk@vivaenergy.com.au