



# Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant

## 'Ready-to-Use' Long-Life Hybrid Nitrited and Silicated Organic Acid Technology Coolant 50% Pre-Diluted

Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant is a low silicate, nitrited, fully formulated, hybrid organic acid technology automotive and heavy-duty diesel engine coolant. This product does not require a charge of supplemental coolant additive (SCA) during the initial fill. The product is pre-diluted and is ready to use. It is free of any phosphates and amines.

Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant is designed for use in both automotive and heavy-duty applications.

### Applications

Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant can be used in both automotive and heavy-duty applications. This product is 'ready-to-use' and should not be diluted further with water. It is suitable for use in both Petrol and Diesel powered engines.

This product is particularly suited in applications which require a hybrid technology which is nitrited and low-silicated, and yet is amine and phosphate free.

### Performance Features and Benefits

- **Long life hybrid organic acid technology**  
In Petrol Engine applications, this product is suitable for 5 years or 250,000km, whichever comes first. In Diesel applications, the product is suitable for 500,000km or 6000hr lifetime prior to first SCA addition requirement, whichever comes first.
- **No initial charge SCA requirement**  
When used in long haul or heavy-duty applications, there is no need to charge initially the fresh coolant with SCAs.
- **Universal use**  
Meets or exceeds standard industry requirements for automotive and heavy-duty diesel applications.
- **Widely compatible with other coolants**  
Product is widely compatible with other engine coolants; although to get best performance (regarding issues such as long life and time between SCA addition), it is best to flush the old

coolant and replace with Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant.

### Specifications and Approvals

Shell HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant is recommended for use where the following engine coolant specifications are required:-

ASTM	D 3306 / D 4985 / D 6210
AS/NZS	2108:2004 Type A
Caterpillar	EC-1 (Sec 2.3 – 4.5 incl.)
Cummins	Bulletin #3666132
Detroit Diesel	Bulletin #7SE298
GM	1825M/1899M
JD	JDM HD24
MAN	324 TUC 1637/77
MTU	(EVP 1 1827/MTL 5048) & NA
MB	DBL 7700
SAE	J1034/J1941
Saab/Scania	6901
TMC	RP 329

### Health & Safety

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your Recochem representative.

#### Protect the Environment

Take used coolant products to an authorised collection point. Do not discharge into drains, soil or water.

#### Shelf Life

When stored undercover, away from moisture and direct sunlight, this product should be suitable for use for up to two years after manufacture.





## Typical Physical and Chemical Characteristics

<b>HD Premium-N 50% Pre-Diluted Antifreeze/ Coolant</b>	<b>Method</b>	<b>Units</b>	<b>Performance</b>
Appearance	Visual		Fluorescent Yellow, Clear and Bright fluid
pH (as sold)	ASTM D 1287		7.6 – 8.6
Reserve Alkalinity	ASTM D 11121	mL 0.1N HCL	3 min
Specific Gravity (15 DegC)	ASTM D 1122	kg/L	1.070 – 1.080
Water Content	ASTM D 1123	% w/w	49.0 – 51.0
Freeze Point (as sold)	ASTM D 1177	Deg C	-37
Chloride	ASTM D 3634	ppm	25 max

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

