TECHNICAL DATA SHEET

PREFERRED LUBRICANTS ™ ANTIFREEZE/COOLANT

NITRITE FREE HEAVY DUTY ELC RED ANTIFREEZE & COOLANTS OAT HEAVY DUTY EXTENDED LIFE

PREFERRED Lubricants ...Energy To Deliver

PRODUCT DESCRIPTION

PREFERRED LUBRICANTS™ Nitrite Free Heavy Duty ELC Red prediluted 50/50 is a heavy-duty extended life antifreeze/coolant and contains a proprietary poly-organic/multi-organic acid technology inhibitor system that does not contain any phosphate, silicate, borate, nitrate or nitrite. It meets the performance requirements of ASTM D6210 without nitrite or nitrite/molybdate combination. It does not require a supplemental coolant additive (SCA) for heavy-duty fleet maintenance programs, but still provides wet sleeve cylinder liner cavitation protection due to its unique formulation. **PREFERRED LUBRICANTS™ Nitrite Free HD ELC Red** all-organic/poly-organic acid formulation has several other advantages. It is compatible with all types of coolant technologies including conventional inorganic acid salt formulations, straight organic acid (OAT) formulations, hybrid organic acid formulations (HOAT), nitrited HOAT formulations (NOAT) and other poly-organic acid formulations. Additionally, it has a low reactivity which makes it less sensitive to contaminants such as motor oil, hard water compounds and other coolants. In fact, it can be mixed with other coolants in any proportion without adverse effects on corrosion protection. It is suitable for passenger cars, vans, SUVs, light trucks, heavy-duty fleet vehicles and many off-road applications such as stationary engine cooling systems.

INDUSTRY STANDARDS

This ready-to-use antifreeze/coolant concentrate meets the following industry specifications:

- **ASTM D3306 (automotive/light-duty)** ▪ Kenworth ▪ **GMC Truck**
- **Caterpillar EC-1** ▪ **Peterbilt** ▪ **Case** ▪ **Mack** ▪ **Detroit Deisel**
- **ASTM D4985 (heavy duty diesel/low silicate)** ▪ **Freightliner**
- **ASTM D6210 (fully formulated & precharged)** ▪ **Thermo King**
- **TMC of ATA RP 329/330*)** ▪ **Powercool Plus & DDC** ▪ **International**
- **Volvo** ▪ **TMC RP329** ▪ **Ford Trucks (2019 & Newer)** ▪ **PACCAR**
- **VW** ▪ **GM 6277** ▪ **Navistar CEMS B-44** ▪ **Cummins 14603**
- **John Deere H-5, H-24, A-1 to C-1**

*The Maintenance Council of the American Trucking Association Antifreeze also meets the non-phosphate requirements of European OEM's and non-silicate requirements of Japanese OEM's. A major advantage of this type of antifreeze is that it provides total cooling system protection for 600,000 on-road miles without the use of additive-containing coolant filters or supplemental coolant additives (SCA's). The addition of an extender at 300,000 miles is the only maintenance required, although, it is recommended that a sample of the coolant be inspected quarterly to detect any problems such as significant color change, pH change, phase separation, precipitation, cloudiness, or obvious contamination. This inspection should be in addition to the parameters that are normally checked in a routine or scheduled maintenance program.

PART NUMBERS

	50/50	CONCENTRATE
DRUM	999063-55	999062-55
6/1 G	999063-6	999062-6

ABOVE CHART BASED ON USING A 15 PSI RADIATOR CAP

TYPICAL TECHNICAL PROPERTIES

PROPERTY	SPECIFICATION	ASTM TEST METHOD	NITRITE FREE HD
CHLORIDE	25 PPM, MAX.	D3634	3
SPECIFIC GRAVITY, 60/60°F	1.065 MIN.	D1122	1.070
BOILING POINT, 50% V/V	226°F/107°C MIN.	D1120	230°
FREEZING POINT, 50% V/V	-34°F/-36°C MIN.	D1177	-34°
EFFECT ON ENGINE OR VEHICLE FINISH	NO EFFECT	--	PASS
ASH CONTENT, MASS%	2.5 MAX.	D1119	1.1
pH, 50% V/V	8.0 - 9.5	D1287	8.7
RESERVE ALKALINITY*	NONE SPECIFIED	D1121	4 MIN.
WATER MASS %	NONE SPECIFIED	D1123	49.0 MAX.
COLOR	DISTINCTIVE	--	RED
EFFECT ON NONMETALS	NO ADVERSE EFFECT	--	PASS
STORAGE STABILITY	NONE SPECIFIED	--	>1 YEAR
FOAMING	150 ml RISE, MAX. 5 SEC. BRK MAX	D1881	PASS

*Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.

Used antifreeze coolant in most states is not hazardous unless it contains more than 5 ppm of lead. We recommend that spent coolant never be disposed of by dumping into a storm sewer or onto the ground. Instead, contact your local municipality for instructions on where to and how to properly dispose of this coolant and protect our environment.. LOTT OIL, LLC assumes no responsibility for product misuse or improper application. For a copy of this product's Safety Data Sheet (SDS) or Technical Data Sheet (TDS), visit www.LOTTOIL.com