



Product Information:

# ULTRALIFE 4

## LONG LIFE ORGANIC ACID TECHNOLOGY

### ANTIFREEZE COOLANT

#### Description

Ultralife 4 is a heavy duty, versatile antifreeze/coolant that provides long-life corrosion protection for all engine metals, including aluminium and ferrous alloys.

The coolant has been field tested and has proven to provide the following periods of protection:

- **650,000 km** (ca. 8,000 hours) in truck & bus-application or
- **250,000 km** (ca. 2,000 hours) for passenger cars or
- **32,000 hours** (or 6 years) for stationary engines.

It is recommended to change the coolant every five years or when above mileages or operating times are reached, whichever comes first.

Ultralife 4 provides long-life protection against all forms of *corrosion* by the use of optimised and patented organic corrosion inhibitors. This product does not contain nitrates, nitrites, amines, borates or silicates. Excellent and lasting high temperature corrosion protection is provided for the aluminium heat transfer surfaces contained in modern engines. Furthermore, Ultralife 4 offers excellent cavitation protection.

#### Features and Benefits

- Extended life
- Improved heat transfer
- Reduces repairs to thermostat, radiator and water pump
- Improved hard water stability, absence of silicates and phosphates
- Save time and money maintenance-free coolant
- Suitable for mixed fleets, one coolant for automotive and heavy duty applications
- Environmentally friendly by using carboxylic additives

#### Applications

Ultralife 4 may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys.

Solution % Vol.	Freezing Point °C
33	-20
50	-40

(For guidance purposes. Slight variations may occur from batch to batch)



## Performance Levels

ASTM D3306, D4656, D4985, D6210  
 BS6580  
 JIS K2234-2006 Class II: LLC (Japanese Standard)  
 SAE J1034  
 KS M 2142 (Korean Standard)  
 Ford WSS-M97B44-D  
 Mercedes-Benz 325.3  
 General Motors GM 6277M  
 MAN 324 type SNF  
 Volkswagen TL 774F  
 CNH MAT3624  
 Caterpillar GCM34, MWM 0199-99-2091/12  
 Cummins 85T8-2, IS Series u N14, CES 14603, CES 144439  
 MB 325.3, 326.3  
 Detroit DFS93K217  
 Deutz DQC CB-14  
 Fiat / Lancia 9,55513  
 GE Jenbacher TA 1000-0200  
 GE Waukesha  
 Liebherr MD1-36-130  
 Mahle Behr  
 Mazda MEZ MN 121D  
 Paccar DAF 74002  
 Paccar Leyland Trucks DW03245403  
 Renault Nissan 41-01-001/- -S Type D  
 Rolls Royce Power Systems MTU MTL 5048  
 Rolls Royce Power Systems Bergen 2.13.01  
 Suzuki Santana  
 Tata Motors JLR CMR 8229, STJLR 651.5003  
 Tedom  
 Thermo King

Van Hool  
 Volvo Mack 014 GS 17009  
 Volvo Renault Trucks 41-01-001/-, -S Type D  
 VW TL-774 D, TL-774 F, Skoda 61-0-0257  
 VW MAN 324 Typ SNF, Diesel and Turbo SE  
 VW MAN B&W AG D36 5600, B&W A/S  
 Wartsila SACM Diesel DLP799861  
 Wartsila 32-9011  
 Yanmar

Also suitable for use in:

AGCO Fendt  
 AGCO Valtra  
 Aston Martin  
 Perkins  
 Claas  
 GM Chevrolet, Saturn  
 GM Saab B 040 1065  
 Great Wall Motor Co. Ltd.  
 Hitachi  
 Isuzu  
 Irisbus Karosa  
 John Deere JDM H5  
 Kobelco  
 Komatsu 07.892 (2009)  
 Mitsubishi Heavy Industry  
 PSA Opel-Vauxhall GMW 3420  
 Volvo AB Penta  
 Volvo Construction / Trucks  
 VW Sert Pielstick

## Physical Characteristics

Colour (Visual)	Fluorescent Orange
Ethylene glycol, % w/w	93 min.
Other glycols, % w/w	0.5 max.
Inhibitor content, % w/w	5
Water content, ASTM D1123, % w/w	5
Ash content, ASTM D1119, % w/w	1.1 typ.
Nitrate, nitrite, amine, borate, silicate	nil
Specific gravity, ASTM D5931, 15°C	1.116 typ.
Specific gravity, ASTM D5931, 20°C	1.113 typ.
Equilibrium boiling point, ASTM D1120, °C	180 typ.
Reserve alkalinity (pH 5.5), ASTM D1121	6.2 typ.
pH, ASTM D1287, 20°C	8.6 typ.
Refractive Index, ASTM D1218, 20°C	1.430 typ.

Above figures based on average production values.

Part No.s: ULM020, ULM205

(TDS Ultralife 4 – 0671 123 Issue 1)

