



## LONG LIFE ORGANIC CONCENTRATED COOLANT

*A PREMIUM GRADE COOLANT FOR USE IN ALL MAKES AND MODELS OF VEHICLE INCLUDING AUTOMOTIVE AND HEAVY DUTY DIESEL*

### DESCRIPTION

A premium quality, organic, long life anti-boil/anti-freeze coolant concentrate, based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. Suitable for both automotive and heavy duty diesel engines.

Contains 90% monoethylene glycol and a double inhibitor package ensuring ultimate corrosion protection and extended service life. Anti-boil and anti-freeze protection is equally afforded with a substantially higher rust and corrosion protection than competitor products. Long Life Organic Concentrated Coolant is the ultimate in up to date coolant technology.

Protects all metals found in cooling systems and gives excellent protection against cavitation's erosion and wet-sleeve liner pitting. It significantly increases the operating life of water pumps and exceeds corrosion performance levels required to meet Australian Standard AS2108.1-2004 and numerous performance specifications of OEM's including Ford and GMH. This coolant has been independently verified to all relevant ASTM's for automotive and heavy duty diesel use.

Provides maximum protection against 'hot spot' corrosion, common in aluminium cylinder heads. Service life of up to 5 years / 500,000kms\* in automotive applications and up to 6 years / 600,000kms / 6,000 hours\* in heavy duty diesels. This has obvious environmental advantages as a result of fewer coolant changes. There are no deleterious effects on hoses or gaskets (\* at 50/50 dilution ratio).

Has a proven record over many years with marine engines, mining equipment, taxi fleets, government departments, bus companies and several large fleet truck companies.

### STORAGE

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

### HEALTH, SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil on: 02 9673 9600.

**GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (AUST) PTY LTD**

**Head Office:** 92-96 Links Road, St Marys NSW 2760 - PO BOX 515 Kingswood, NSW 2747

**Phone:** 02 9673 9600 - **Fax:** 02 9623 6466 - **Email:** sales@gulfwestern.com.au - **Web:** www.gulfwestern.com.au

**ACN:** 087 558 398



**GULF WESTERN OIL**  
THE TOUGH AUSTRALIAN

## PRODUCT DATA SHEET

### LONG LIFE ORGANIC CONCENTRATED COOLANT

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OF VEHICLE INCLUDING AUTOMOTIVE AND HEAVY DUTY DIESEL

#### TYPICAL CHARACTERISTICS

LONG LIFE ORGANIC CONCENTRATED COOLANT	
Appearance	Mobile Liquid - Red
pH (50/50 vol/vol)	7.7 - 8.6
Glycol by weight (gm/L)	1.0035
Density	1.1103 kg/L (Concentrate)
Freezing Point	-36.2°C (50% by Vol.)
Boiling Point	108.2°C (50% by Vol.)
Reserve Alkalinity (mL)	4.6
Hazard Class	Hazardous Substance
DG Class	Non Dangerous Goods
Glassware Corrosion Test	Pass (ASTM D-1384)
Aluminium Corrosion Test	Pass (ASTM D-4340)
Water Pump Cavitation Test	Pass (ASTM D-2809)
Foaming Tendencies Test	Pass (ASTM D-1881)
Cummins Anti-Scale Test	Pass (per AES 14603)

*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.*

#### AVAILABLE PACK SIZES

205lt - 40056 20lt - 42056

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#### TEST RESULTS - ASTM D 1384 - GLASSWARE CORROSION TEST

METAL	ALLOWABLE WEIGHT LOSS	TYPICAL WEIGHT LOSS
Copper	10mg/coupon	0.00
Solder	30mg/coupon	0.05
Brass	10mg/coupon	0.01
Steel	10mg/coupon	0.00
Cast Iron	10mg/coupon	0.03
Aluminium	20mg/coupon	0.14

#### ASTM D 4340 - ALUMINIUM HEAT REJECTION TEST

ALLOWABLE WEIGHT LOSS	TYPICAL RESULT
1.0mg/cm <sup>2</sup> /week	-0.01

#### ASTM D 2809 - CAVIATION EROSION CORROSION

RATING (MINIMUM)	COOLANT
8	8

#### SPECIFICATIONS

RECOMMENDED IN VEHICLES WHERE THE FOLLOWING PERFORMANCE LEVELS ARE REQUIRED:				
AS 2108.1: 2004 TYPE A	FORD ESE M 978B4H-A	MAZDA MES MN 1210	CUMMINS 3666132	BRITISH LEYLAND
AFNOR NFR 15-601	FORD ESE M 99B166-C	JAPANESE JIS K 2234	SAAB FSD 8074	KOMATSU KES 07.892
ASTM D3306, D4656, D4985	TOYOTA K2601G-1G	SAE J 1034 AND JASO M 324	CATERPILLAR 1 EO 535	JENBACHER
BS 6580	ISUZU	VOLVO (SPEC. NO 1286083)	DAF 742002/BTPS 606A/DCEA 615	LIEBHERR MD 1-36-130
GM 6277 M	IVECO	BMW N 600 69.0	KIA	MAN 324 TYPE SNF
GM 1825 M & GM 1899 M	HYUNDAI	MERCEDES BENZ MB-Approval 325.3	SUBARU	WAUKESHA 4-1974D
FORD ESE FM 97B18-C	VOLKSWAGEN	NISSAN NES 5059 LLC	MITSUBISHI	SAAB SCANIA® 6901

Meets the phosphate-free requirements of European manufacturers. Meets the silicate-free requirements of Japanese manufacturers.

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