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### **IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Trade name	: Engman's Super RTU Antifreeze	
Product name	: Glysantin G48 Premix	
Product type	: Coolant Premix	
Supplier	: Unico Manufacturing Co. (PE) (Pty) Ltd.	
Address	: 6 Celebes Road, Island View, Durban, South Africa	
Contact number	: +27 (31) 466 1541/2	
Emergency contacts	: Vishen Kanhai +27(64) 752 2197/ +27(82) 340 3521	

### DESCRIPTION

Glysantin® G48® Ready Mix is a ready-to-use engine coolant based on ethylene glycol.

Glysantin G48 Ready Mix contains a hybrid corrosion inhibitor package based on salts of organic acids and silicates (Hybrid Coolant).

Glysantin G48 Ready Mix is free of nitrites, amines and phosphates.

### **Properties**

#### Glysantin G48 Ready Mix is ready for use. Further dilution with water is not recommended.

Glysantin G48 Ready Mix is a 50:50 mixture of Glysantin G 48 and water. For the preparation of the mixture demineralized water with low electrical conductivity is used, in order to maximize corrosion protection and to minimize hard water scale deposits in the cooling system.

Glysantin G48 Ready Mix provides frost protection down to -38 °C.

Glysantin G48 Ready Mix was developed to protect engines against corrosion, overheating and frost damage. It gives a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads, water pumps and heat exchangers, and avoids deposits.

Glysantin G48 fulfills the requirements of the following coolant standards: AS 2108-2004, ASTM D 3306, ASTM D 4985, SAE J1034, AFNOR NF R 15-601, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, China GB 29743-2013 and BS 6580:2010.

Furthermore Glysantin® G48® is officially approved by:

icially approv	ed by:	
	BMW	BMW GS 94000
•	Bez. Reg. Arnsberg,	84.12.22.63-2001-2
	Dept. of Mining and Energy	
•	German Army	TL 6850-0038/1
•	Daimler/Mercedes-Benz	MB-Approval 326.0
		(fan O 40 Daark Min)

- Deutz
- Jenbacher
- Liebherr

TL 6850-0038/1 MB-Approval 326.0 (for G48 Ready Mix) DQC CA-14 TA-Nr. 1000-0201 Minimum LH-00-COL3

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- MAN ٠
- MTU •

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- MAN 324-NF

- **Opel/General Motors**
- MTL 5048

6901599

TL 774-C

- B 040 0240 for 924, 928, 944, 968
- Porsche •
- Saab •
- VW/Audi/Seat/Skoda ٠

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Miscibility	Since the special advantages of Glysantin G48 Ready Mix will only be achieved when Glysantin G48 Ready Mix is used exclusively, mixing Glysantin G48 Ready Mix with other Glysantin coolants or products from other producers is not recommended.			
Chemical nature	Ethylene glycol and wate	Ethylene glycol and water with corrosion inhibitors		
Appearance Clear liquid				
Physical data	Density, 20 °C	1.072 – 1.074 g/cm³	DIN 51 757-3	
	Refractive index, 20 °C	1.385 – 1.387	DIN 51 423-2	
	Boiling point	min. 105 °C	ASTM D 1120	
	pH value	7.9 – 8.3	ASTM D 1287	
	Reserve alkalinity	6 – 8 ml	ASTM D 1121	
	Ash content	max. 1.0 %	ASTM D 1119	
	Water content	47 – 51 %	DIN 51 777-1	
	Kinematic viscosity at 0 °C at 20 °C at 80 °C	ca. 8.8 mm²/s ca. 4.1 mm²/s ca. 1.0 mm²/s	DIN 51 562	
Frost protection	Freezing point	below -38 °C	ASTM D 1177	

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Foaming characteristics	Foam volume / break time	e max. 50 ml / 3 s	ASTM D 1881
Electrical conductivity	at 23 °C	approx. 4 mS/cm	ASTM D 1125
	Corrosion Test Data f	or Glysantin® G480	B
Glassware Corrosion Test	ASTM D 1384		
	Metal coupons typic	cal weight change mg/coupon	ASTM D 3306 limit mg/coupon
	Copper Solder Brass Steel Cast iron Cast aluminum	- 0.1 - 0.3 - 0.2 0.2 1.0 1.1	10 max 30 max 10 max 10 max 10 max 30 max
Heat Transfer Corrosion Test		cal corrosion rate mg/cm²/week	ASTM D 3306 limit mg/cm²/week
	Cast aluminum	-0.07 *)	1.0 max
Simulated Service Corrosion Test	ASTM D 2570		
	Metal coupons typic	cal weight change mg/coupon	ASTM D 3306 limit mg/coupon
	Copper Solder Brass Steel Cast iron Cast aluminum	- 8.8 0.0 - 10.7 - 0.1 1.1 1.2	20 max 60 max 20 max 20 max 20 max 60 max

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Cavitation Erosion Corrosion	ASTM D 2809		
Test	Aluminum water pump	9	8 min
Quality Control	The above-listed data represe press of this Data Sheet. They handling and cannot be regard data are issued as a separate	vare intended as a guide led as specified data. Spe	to facilitate
Packaging	Glysantin G48 Ready Mix is av	/ailable in 230 kg drums a	and 1.5 L cans.
Storage Stability	Glysantin G48 Ready Mix has stored in originally closed, air-t maximum 30 °C. Do not use g	tight containers at temper	atures of
Color	Glysantin G48 Ready Mix is av	vailable in blue-green.	

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#### Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals

Note	

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.