



BLUE OCEAN

ENGINE COOLANT	TECHNICAL DATA SHEET	ISSUED AUGUST 2016
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BLUE OCEAN

Blue Ocean Oil Supply (Pty) Ltd

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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade name	: Blue Ocean Coolant – 50/50 Premix
Product name	: Glysantin G05 Premix
Product type	: Coolant Premix
Supplier	: Unico Manufacturing Co. (PE) (Pty) Ltd.
Address	: 6 Celebes Road, Island View, Durban, South Africa
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Emergency contacts	: George Moonsamy on +27 (39) 974 3108 / +27 83 629 1290
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DESCRIPTION

Glysantin® G05® is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use.

Glysantin G05 contains a corrosion inhibitor package with nitrites, borates and silicates. Glysantin G05 is free of amines and phosphates.

Glysantin G05 protects engines against corrosion, overheating and frost. It gives a high degree of corrosion protection to engine components such as radiators, cylinder blocks/heads and water pumps. Due to its nitrite content this product is especially recommended for use in heavy-duty engines.

Glysantin G05 fulfills the requirements of the following coolant standards:

AS 2108-2004, ASTM D 3306, ASTM D 6210, BS 6580:2010, CUNA NC 956-16, AFNOR NFR 15-601, ÖNORM V 5123, SAE J1034, SANS 1251:2005 and SH 0521-1999.

Furthermore Glysantin G05 is officially approved according to the following OEM standards:

- Chrysler MS-9769
- Daimler/Mercedes-Benz Specification 325.0
- MTU MTL 5048
- John Deere JDM H 24
- Ford WSS-M97B51-A1



Miscibility

Since the special advantages of Glysantin G05 will only be achieved when Glysantin G05 is used exclusively, mixing Glysantin G05 with other Glysantin Coolants or products from other producers is not recommended.

Glysantin G05 should be blended with water in a concentration amongst 33 to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and Glysantin is generally advisable.

For preparation of the coolant it is recommended to use distilled or deionized water. In most cases tap water is also appropriate.

Analysis values of the water may not exceed the following threshold values:

Water hardness:	0 – 3.6 mmol/l
Chloride content:	max. 100 ppm
Sulfate content:	max. 100 ppm

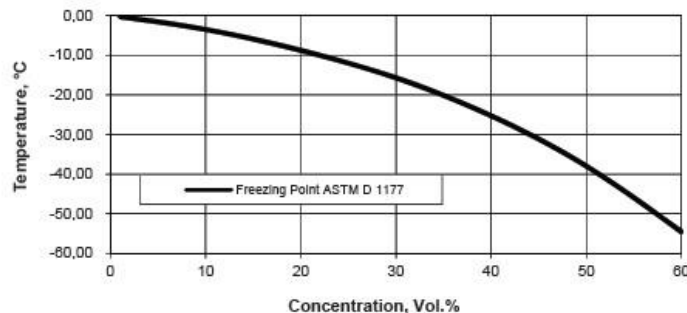
Physical Data

Form:	liquid
Colour:	according to specification
Odour:	product specific
Odour threshold:	No applicable information available.

pH value:	7.60 – 8.00	ASTM D1287
Boiling temperature:	> 100°C	ASTM D1120
Density (20°C):	1.076 – 1.078 g/cm ³	ASTM D5931
Reserve Alkalinity:	7.50 – 9.50ml	ASTM D1121
Water content:	47.00 – 51.00%	ASTM D1123

Frost protection	Freezing point	ASTM D 1177
	50 vol % solution	below -38 °C
	33 vol % solution	below -18 °C

Frost Protection of Glysantin® G05®





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Foaming characteristics

33 vol % solution

max. 50 ml / 3 s

ASTM D 1881

Quality Control

The above-listed data represent average values at the time of going to press of this Data Sheet. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Storage Stability

Glysantin G 05 has a shelf life of at least three years when stored in originally closed, air-tight containers at temperatures of maximum 30 °C. Do not use galvanized containers for storage.

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.