

# GLYCHILL™ MEG

## Industrial Coolant and Heat Transfer Fluid



### PRODUCT OVERVIEW

PrixMax GLYCHILL™ MEG is a fully formulated multipurpose heat transfer fluid and industrial coolant based on mono-ethylene glycol. This product offers outstanding corrosion protection through the use of virtually non-depleting organic inhibitors, eliminating the need for frequent inhibitor additions.

GLYCHILL™ MEG contains an inhibitor package based on carboxylate technology to ensure effective, long lasting corrosion protection at both high and low temperatures.

### PRODUCT BENEFITS

- Excellent freezing, bursting and boiling protection
- Outstanding corrosion protection for copper, brass, cast iron, steel and aluminium
- Cost effective solution
- Longer lifetime corrosion protection over traditional inhibitor technologies
- Avoids frequent inhibitor top-ups
- Reduces maintenance costs
- Prolongs pump life
- Increases heat transfer efficiency
- Reduces glycol ageing
- Free from silicates, nitrites, phosphates, borates, amines and molybdates
- Readily biodegradable in its unused form

### APPLICATIONS

GLYCHILL™ MEG is suitable for use as a heat transfer fluid across a variety of applications, including in heat pump systems, for cooling and heating industrial processors, and as a coolant in indirect cooling systems.

**Note:** This product should not be used where contact with food or potable water is possible.

### TECHNICAL CHARACTERISTICS

Property	Method	Typical Results
Colour		Colourless
pH (33% vol)	ASTM D1287	8.4
Nitrate, amine, phosphate, borate, silicate and other heavy metals content		Nil
Density, g/ml, 20°C	ASTM D1122	1.11
Freezing Point °C (50% vol)		-37

#### Storage Stability

> 2 years

Technical Characteristics are typical of those obtained with normal production tolerance. Variations in product typical results are to be expected during normal manufacture.

### MAINTENANCE

#### Dilutions

GLYCHILL™ MEG is available as a 100% concentrate. Dilution with high purity water should be performed to achieve the desired freeze point before the fluid is added to the system. Please see the Freeze Protection Table below to select the concentration for your application.

#### Freeze Protection Table

Use the following table to determine the product concentration to use in your application. The acceptable concentration ranges from 33% to 60% by volume.

Concentration (Volume %)	Freeze Protection (°C)
33.0	-20
39.1	-25
43.8	-30
48.2	-35
52.4	-40
56.2	-45
60.0	-50

### General

- GLYCHILL™ MEG is compatible with most other heat transfer fluids based on ethylene glycol (for example, Dowtherm® SR-1). Exclusive use of GLYCHILL™ MEG is, however, recommended for optimal corrosion protection.
- To prevent any contamination, we can provide you with ready-to-use dilutions. Contact your local PrixMax sales manager for more information.

### Dilution Water Quality Requirements

To prepare the ready-to-use dilutions, we strongly recommend the use of deionised or distilled water for optimal performance and controlled quality. Dilution water specifications are set out below.

Impurity	Level
Chloride	25 ppm (max.)
Sulphate	25 ppm (max.)
Calcium	25 ppm (max.)
Magnesium	25 ppm (max.)
Total hardness	100 ppm (max.)

## CORROSION PROTECTION

### ASTM D1384 glassware corrosion test

	Weight loss in mg/coupon*					
	Brass	Copper	Solder	Steel	Cast Iron	Aluminium
Industry limit (max)	10	10	30	10	10	30
GLYCHILL MEG	1.6	1.9	0.1	-0.5	-1.4	4.6

\*Weight loss AFTER chemical cleaning according to ASTM procedure. Weight gain is indicated by a negative sign.

## STORAGE AND HANDLING

GLYCHILL™ MEG should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimised.

Exposure of the product in translucent packages to direct sunlight can degrade any dyes present in the product, and result in fading of the colour or discolouration over time. This process can be accelerated if coupled with high ambient temperatures. The colour change will not affect the performance of the product only the appearance. Therefore fluid in translucent packages should be stored INDOORS. Provided the product is stored in accordance with good practice as above in unopened, new containers, the product has a shelf life of up to 8 years. The use of galvanised steel is not recommended for any part of the storage/mixing process.

## TECHNICAL SUPPORT

Full technical support of the PrixMax laboratory is available through our ASTM qualified in-house laboratories, located at the manufacturing plant in Victoria, Australia. Testing services are available from our laboratory staff and technical product managers to assist in the use of GLYCHILL™ products.

## PACK SIZES

Please contact your local area sales manager on availability of packages and dilutions.

## TOXICITY AND SAFETY

**Warning:** GLYCHILL™ MEG contains ethylene glycol, which is harmful or fatal if swallowed. Avoid eye or skin contact. For advice, contact a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor at once. If swallowed, do NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (eg Australia 13 11 26; NZ 0800 764 766) or a doctor, or for at least 15 minutes. Seek medical attention if irritation persists.

Further ENVIRONMENT, HEALTH and SAFETY Information is available on this product in the **Safety Data Sheet (SDS)**. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal.

To obtain the SDS for this product, please contact us.

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