

Inhibited Propylene Glycol

Freezing Protection for Closed Loop Systems

Description

Inhibited Propylene Glycol based solutions are used as heat transfer solution and as an antifreeze in systems which are required to operate in areas exposed to extremes in temperatures. **Inhibited Propylene Glycol** solution will protect operating systems up to -60 °F.

The acute oral toxicity of propylene glycol is very low and is generally recognized as safe (GRAS). **Inhibited Propylene Glycol** solutions are suitable for use in food plants and in applications where toxicity is a concern. Glengarry **Inhibited Propylene Glycol** is formulated with an industrial strength corrosion inhibitor designed specifically for Closed Recirculating systems. The corrosion inhibitor protects metals commonly found in both industrial and commercial installations, including brass, copper, steel and cast iron.

Inhibited Propylene Glycol is clear and colourless liquid.

Application

Inhibited Propylene Glycol may be dosed into the system undiluted from the drum using a hand-operated positive displacement pump or as a pre-diluted solution via an automatic make-up dosing system. Intended for systems operating at -50 °F to 250 °F (-46 °C to 121 °C).

Adjust the proportion of **Inhibited Propylene Glycol** to water in the system depending upon the freezing point and boiling points required. The freezing point for **Inhibited Propylene Glycol** may be checked with a refractometer testing device.

Freezing Point Protection

% Inhibited Propylene Glycol by Volume	Freezing Point Protection	
25%	14°F	-10°C
30%	9°F	-13°C
35%	1°F	-17°C
40%	-8°F	-22°C
45%	-18°F	-28°C
50%	-31°F	-35°C
55%	-45°F	-43°C
60%	-63°F	-53°C

If the **Inhibited Propylene Glycol** mixture is maintained under 25%, then additional corrosion inhibitor may be required. The reserve alkalinity should be monitored frequently to ensure the corrosion inhibitor level is within recommended parameters.

Consult with your Glengarry Technical Representative for recommended dosing equipment, dosage rates and by-pass filtration equipment for your closed loop system.

Inhibited Propylene Glycol is packaged in 20 litre pails and 205 litre drums.

For high temperature solar systems at 250 °F to 325 °F (121 °C to 163 °C), recommend using a HD Glycol. For aluminum heat exchanger systems, recommend using an aluminum safe glycol.

Safety Precautions

Please refer to the Safety Data Sheet which contains detailed information about this product and the recommended handling procedures.