



# RHOMAR WATER

Heat Transfer Fluids • Hydronic System Solutions

## RhoGard™

### Aluminum/Stainless Steel Safe Multi-Metal Heat Transfer Fluid

- *Heating, Cooling and Solar System Fluid*
- *Blended with Virgin Propylene Glycol*
- *Can Be Diluted On-Site with Distilled or D.I. Water*
- *Multi-Metal Corrosion Inhibitors and Performance Additives*
- *Protects Multiple Metals, Including Aluminum and Stainless Steel*
- *Meets and Exceeds the Corrosion Protection Requirements of ASTM D1384*
- *Provides Years of Corrosion Protection*
- *Helps Keep Heat Exchange Surfaces Clean*
- *Maximizes System Efficiency*
- *Provides Freeze Protection to  $< -60^{\circ}\text{F}$*
- *Provides Burst Protection to  $-100^{\circ}\text{F}$*
- *Environmentally Friendly*
- *Non-Toxic*



*Available in a variety of container sizes.*

Rhomar Water, 2103 E Rockhurst St., Springfield, MO 65802  
1-800-543-5975 • [www.RhomarWater.com](http://www.RhomarWater.com)



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## RhoGard™

### DESCRIPTION:

**RhoGard™** is an Aluminum and Stainless Steel safe multi-metal antifreeze and heat transfer fluid specially blended with VIRGIN PROPYLENE GLYCOL, industrial corrosion inhibitors and performance additives.

### ADVANTAGES:

**RhoGard™** can be used in hydronic heating, cooling, and solar systems. **RhoGard™** can provide freeze protection to < -60 °F and burst protection to -100 °F. The multi-metal additives in **RhoGard™** can help protect metals including aluminum, brass, cast iron, copper and stainless steel from corrosion, scale and sludge deposits. **RhoGard™** meets and exceeds the corrosion protection requirements of ASTM D1384.

### SOLAR SYSTEMS:

Solar fluids are susceptible to very hot and cold temperature extremes. It is recommended that **RhoGard™** be diluted no more than 80 % with 20 % distilled or D.I. water. However an alternative water source may be used provided its hardness is less than 100 ppm (6-grains) and both the chlorides and sulfates are less than 25 ppm. Higher concentrations of **RhoGard™** are also acceptable. The inhibitor additives in **RhoGard™** can withstand temperatures to over 400 °F (205 °C). The glycol/water mixture may experience boiling at very high temperatures if the system is not pressurized. Drain-back systems may experience burning of the glycol left in the lines when temperatures exceed 370 °F (188 °C) or higher.

### DIRECTIONS:

All systems, new and existing, should be thoroughly cleaned and flushed using **Rhomar Water's Hydro-Solv™** cleaner prior to adding the heat transfer fluid. Properly cleaning the system will reduce the rate of corrosion and prolong the life of the heat transfer fluid. Determine the total fluid capacity of the system. Calculate the percentage of **RhoGard™** needed based on the "Freeze and Burst Protection Chart" shown below.

### NOTICE:

When adding less than 50 % **RhoGard™** heat transfer fluid to a system, additional corrosion inhibitor should be added to ensure adequate corrosion protection. **Pro-Tek® 922** may be used for this purpose.

#### FREEZE AND BURST PROTECTION CHART:\*

RhoGard™	Freeze Point	Burst Protection
100 %	< -60 °F	-100 °F
80 %	-26 °F	-90 °F
60 %	0 °F	-53 °F
50 %	+7 °F	-20 °F
40 %	+14 °F	+1 °F

*\*Freeze protection figures may vary slightly due to water chemistry. Burst Protection figures are estimates that will be affected by system design and components.*

### TESTING:

Freeze protection level should always be verified with a glycol refractometer. Retest the system fluid annually to ensure proper freeze and corrosion protection. Samples may also be sent to **Rhomar Water** for testing by using the "Water Test Request Form" at [www.RhomarWater.com](http://www.RhomarWater.com).

### CAUTION:

Although classified as non-toxic, **RhoGard™** DOES CONTAIN NON-FOOD GRADE ADDITIVES. Using **RhoGard™** in a potable water heating system may require a double-wall heat exchanger to comply with local regulations. Propylene glycol is not recommended for CPVC plastic piping.

### REORDERS:

Call **800-543-5975** or visit our website at [www.RhomarWater.com](http://www.RhomarWater.com).

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