



RHOMAR WATER

Heat Transfer Fluids • Hydronic System Solutions

EnviroGard™ Ultra HD

Non-Toxic, Freeze and Corrosion Protection fluid for Heating & Cooling Systems

- *All Ingredients are Listed by the USDA and FDA as "Generally Recognized as Safe" (GRAS)*
- *Registered by the NSF and Rated HT1, Thus May Be Used in Systems Where Incidental Food Contact is Possible, as well as Ground Source Geothermal Systems*
- *Blended with Virgin Propylene Glycol*
- *Contains Corrosion Inhibitors and Performance Additives*
- *Ultra Concentrated, Can Be Diluted On-Site with Distilled or D.I. Water*
- *Meets the Corrosion Protection Requirements of ASTM D1384*
- *Protects Cast Iron, Copper, Steel and Brass*
- *Helps Keep Heat Exchange Surfaces Clean*
- *Maximizes System Efficiency*
- *Provides Freeze Protection to < -60 °F*
- *Provides Burst Protection to -100 °F*
- *Non hazardous*
- *Environmentally Friendly*



Available in a variety of container sizes.

Rhomar Water, 2103 E Rockhurst St., Springfield, MO 65802
1-800-543-5975 • www.RhomarWater.com



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DESCRIPTION:

EnviroGard™ Ultra HD is a concentrated inhibited VIRGIN PROPYLENE GLYCOL Antifreeze and Heat Transfer Fluid containing higher levels of food grade non-toxic corrosion and scale inhibitor additives.

ADVANTAGES:

EnviroGard™ Ultra HD can be used in hydronic heating, cooling and ground source systems. **EnviroGard™ Ultra HD** can provide freeze protection to < -60 °F and burst protection to -100 °F. The additives in **EnviroGard™ Ultra HD** can help prevent foaming and protect metals including brass, iron, copper and stainless steel from corrosion and scale deposits. **EnviroGard™ Ultra HD** meets the corrosion protection requirements of ASTM D1384.

DIRECTIONS:

All systems, new and existing, should be thoroughly cleaned and flushed using **Rhomar Water's Hydro-Solv™** cleaner prior to adding antifreeze. Properly cleaning the system will reduce the rate of corrosion and prolong the life of the antifreeze. Determine the total fluid capacity of the system. Calculate the percentage of **EnviroGard™ Ultra HD** needed based on the "Freeze and Burst Protection Chart" shown below. It is recommended to carefully measure and premix **EnviroGard™ Ultra HD** with distilled or D.I. water prior to adding to the system. 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. High hardness can produce a calcium sludge that will reduce the inhibitors and may affect system performance. Always mix glycols 5 – 10 % higher than desired to allow for dilution of the glycol when adding to a system that may not be completely drained.

NOTICE:

When adding less than 20 % **EnviroGard™ Ultra HD** antifreeze to a system, additional inhibitor should be added to ensure adequate corrosion and scale protection. Diluting **EnviroGard™ Ultra HD** with chlorinated water may cause the green color to turn blue.

FREEZE AND BURST PROTECTION CHART:*

EnviroGard™ Ultra HD	Freeze Point	Burst Protection
70 %	< -60 °F	-100 °F
60 %	-48 °F	-100 °F
50 %	-21 °F	-75 °F
40 %	-3 °F	-60 °F
35 %	+5 °F	-30 °F
30 %	+10 °F	-10 °F
25 %	+15 °F	+3 °F
20 %	+19 °F	+14 °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.

PRODUCT SAFETY:

All ingredients in this product are Generally Recognized as Safe (GRAS) by the Food and Drug Administration and the US Department of Agriculture. **EnviroGard™ Ultra HD** is NSF registered and rated HT1 thus may be used where incidental food contact is possible as well as in ground source geothermal systems.

Gosselin Toxicity Index (Propylene Glycol): 1 "essentially non-toxic"

CAUTION:

EnviroGard™ Ultra HD is not suitable for systems that use aluminum, galvanized or CPVC plastic piping.

REORDERS:

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