

## Eco Rope Guardian ERG-1

### Earth Friendly Coating Grease

### Product Information

Viper's Eco Rope Guardian lubricant is specifically formulated to be earth friendly while still meeting the rigorous demands of industrial applications. With these products, you can 'go green' – and keep up with the latest environmental regulations – without having to sacrifice performance.

ECO Rope Guardian Lubricant ERG-1 is a certified Environmentally Acceptable Lubricant (EAL), recommended for use in applications on or near waterways. It meets the specifications required by the EPA's Vessel General Permit (VGP). It is readily biodegradable, exhibits minimal aquatic toxicity and will not accumulate in the cells of fish and other aquatic life forms.

Its semi-tacky, water-resistant characteristics enable it to adhere to the application and seal out damaging moisture and protect against rust formation. It's robust additive package further helps it protect against wear, corrosion, impact, rust and oxidation.

### Beneficial Qualities

- Minimal wash off in high wash submersed applications
- Resists Sling off, keeps work area clean
- Seals surfaces, protecting against rust and corrosion
- Lessens resistance when surfaces slide over one another, ensuring cooler operation
- Dramatically reduces wear to wire ropes and sheaves
- Effectively applied via Auto applicators like the ViperWRL
- Zero Bio accumulating Content
- Increased lubricant intervals, dramatically reduce consumption
- Clings tenuiously to metal surfaces
- Semi translucent aids visual inspection of Ropes "NOT BLACK"
- Broad Temperature Operating range -29°C to 200°C



## ECO Rope Guardian ERG-1

### Technical Data

<b>Thickener Type</b>	Aluminum Complex
<b>Texture</b>	Smooth
<b>Colour</b>	Brown
<b>NLGI Grade</b>	1
<b>Worked Penetration ASTM D217</b>	335
<b>Dropping Point °C (°F)</b>	232(450)
<b>Base Fluid Characteristics</b>	
<b>Viscosity @ 100°C, cSt, ASTM D445</b>	20.4
<b>Viscosity @ 40°C, cSt, ASTM D445</b>	128.5
<b>Corrosion Prevention DI H2O, ASTM D1743</b>	Pass
<b>Biodegradability of Base Fluid %, OECD 301B</b>	>75
<b>Aquatic Toxicity mg/L, OECD 201/202/203</b>	>1,000
<b>Bioaccumulation %, OECD 305</b>	0*
<b>Four-Ball Wear @ 75°C, 1,200rpm, 40kgf, 60 minutes, mmwear, ASTM D2266</b>	0.57
<b>Four-Ball EP Weld Point kgf (N) ASTM D2596</b>	200 (1,961)
<b>Water Washout %, ASTM D1264</b>	21.28

\*All components are readily biodegradable; therefore, bioaccumulation test is not required by VGP.

### Recommendations

- Operating Range: -29° to 200°C (-20 to 392°F)
- Ideal for use through the Viper Wire Rope Lubricator

### Typical Applications

Applications on or near waterways, including:

- Wire Ropes
- Chains (links, pins, bushings)
- Cables (sheave bushings, bearings & strands)

### Proprietary Additives

Proprietary special additive system is used in Eco Rope Guardian. Solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and contact temperatures over 1000°C. It is attracted to metal surfaces, forming a microscopic layer but not building on itself or affecting clearances, minimizing metal-to-metal contact and the resulting friction heat and wear.

Also contains an additive that contributes to outstanding water resistance, tackiness and enhanced mechanical stability, and helps to form a barrier against corrosion.

