



## Biodegradable Wire Rope Lubricant

### PRODUCT DESCRIPTION

Bel-Ray® Biodegradable Wire Rope Lubricant is a solvent-free, biodegradable, penetrating, wire rope lubricant designed specifically for applications where lubricant contamination is an environmental concern. It penetrates the wire rope's core, preventing internal rust and reducing rubbing wear and friction between the individual strands, common causes of most rope failures, and is particularly suited to marine areas or high-water level environments. Biodegradable Wire Rope Lubricant is formulated using renewable bio-base fluids blended with non-toxic extreme pressure and anti-wear additives. It also contains non-toxic rust and corrosion inhibitors. The high oleic vegetable base oil is more oxidatively stable than conventional vegetable oil, providing for extended lubricant life while maintaining rapid biodegradability. This product meets the US EPA 2013 Vessel General Permit (VGP) guidelines as an Environmentally Acceptable Lubricant (EAL).

### PRODUCT FEATURES and BENEFITS

- Provides rapid penetration to the rope core giving excellent lubrication and corrosion protection, increasing the useful life of the rope.
- Enhanced extreme and anti-wear properties maximize component useful life helping to reduce replacement part costs and lost production time.
- Readily biodegradable.
- Superior rust protection for inner strands, suitable for marine or high-water environments.

### APPLICATIONS

Bel-Ray Biodegradable Wire Rope Lubricant is recommended for use on mining, marine, and other general-purpose applications. These include wire ropes found on draglines and shovels, port and shipboard cranes, marine haulage tow cables, forestry products winch ropes, underground mining drift or hoist ropes, and overhead cranes in the food industry.

**DISTRIBUTED BY:**  
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## PRODUCT DATA

Typical Properties		
Property	Test Method	Typical Results
Density @ 15°C (g/mL)	ASTM D4052	0.9125
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	54.0
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	11.4
Viscosity Index	ASTM D2270	212
Flash Point, °C (°F)	ASTM D92	280 (536)
Pour Point, °C (°F)	ASTM D97	-26 (-15)
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D4172	0.29
Biodegradability, (%)	ASTM D5864	69.5
Falex Pin & Vee Block Test Method B, non seizure load (lbf)	ASTM D3233	2000
Rust Prevention	ASTM D665A	Pass
Color	---	Dark Straw

## HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at [www.belray.com](http://www.belray.com)

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