



## Renewable Lubricants, Inc.

476 Griggy Rd., P.O. Box 474

Hartville, Ohio 44632-0474

Voice: 330.877.9982 Fax 330.877.2266

Web: www.renewablelube.com

## Bio-Arctic™ Firearm Lubricant

### *"Biobased Lubricants that Perform Like Synthetics"*

Bio-Arctic™ Firearm Lubricant is a specially formulated ultimately biodegradable<sup>1</sup> light lubricant that was developed to provide lubrication in a wide range of temperatures, with exceptional performance in extreme subzero temperatures. The Stabilized\* bio-synthetic base oils are formulated with the proper additive technology to lubricate into close tolerant areas and prevent corrosion. In addition, this lubricant can help clean and prevent deposits from forming that cause weapons to jam. The Bio-Arctic™ Firearm Lubricant provides very low temperature performance (pour point below -75°F), that prevents deposits from forming, firing pin misfires, and mechanism jamming. The improved performance of Bio-Arctic Firearm Lubricant is a benefit in all firearms, but is especially noticeable with automatic weapon. This improved performance will provide smoother mechanical action that is also noticeable in automatic weapons at temperatures above freezing. It is a multi-functional high performance lubricant that can be used in many industrial applications. Because of its biodegradability, this product has exceptional benefits over petroleum oils in these applications when there is direct loss of the lubricant into the water, soil, or work environment.

<u>Applications</u>	- Military	- Industrial	- Transportation	- Marine	- Agricultural
	Tools	Sports Equipment	Bearings	Bolts	
	Jacks	Assembly Parts	Wire ropes	Chains	
	Dies	Shafts	Hinges	Electronics	
	Locks	Linkage Cables	Air Valves	Air Tools	

### Typical Data

Viscosity @ 40°C, cSt.	ASTM D-445	9.7
Flash Point, PMCC	ASTM D-93	340°F (171°C)
Pour Point (Rotational)	ASTM D-5985	-54°C
Copper Corrosion Prevention	ASTM D-130	1A
Rust Prevention	ASTM D-665	
Distilled Water		Pass-Clean
Synthetic Sea Water		Pass-Clean

Bio-Arctic™ Firearm Lubricant meets the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs), and should be used where **LOW TOXICITY**, **BIODEGRADABILITY** and **NON-BIOACCUMULATION** properties are required. It exceeds the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the US EPA. Bio-Arctic™ Firearm Lubricant is an **ENVIRONMENTALLY RESPONSIBLE** lubricant that is formulated from renewable agricultural biobased resources. We believe Earth's environmental future rests in the use of renewable materials.

### **<sup>1</sup>Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants**

STABILIZED by Renewable Lubricants\* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural biobased oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

Patented Product: US Patent 6,383,992, US Patent 6,534,454 with additional Pending and Foreign Patents  
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<u>Availability</u>	<u>F.O.B. :Hartville, Ohio, USA</u>	<u>Quart</u>	<u>1 Gallon</u>	<u>5 Gallon Pail</u>	<u>Drum</u>	<u>Totes</u>	<u>Bulk</u>
RLI Product Item #		81901	81903	81904	81906	81907	81909