



## Renewable Lubricants, Inc.

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### **Bio-Corrosion Inhibitor™ (BCI™) & Bio-Volatile Corrosion Inhibitor™ (BVCI™) Products**

**STABILIZED™**  
by Renewable Lubricants

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

BCI™ and BVCI™ products are formulated to replace and outperform many petroleum-based products. These products contain no heavy metals, or barium, and are formulated with biobased oils (Stabilized HOBS)/biobased solvents ensuring a safer work environment. The advantages of these biobased stocks are many: biodegradable, renewable, low toxicity, (safer) helps secure the American Economy, and multi-performance.

Additive composition, viscosities, and surface tension of the BCI™ products can be modified for special customers' needs. In many applications, the surface tension and viscosity specifications are duplicated to petroleum products with less volatile biobased oils/biobased solvents that provide a more fire resistant biobased product. The additive composition and surface tension of the products can be modified for use in penetrating applications, wire rope, chain and cable lubricants, metal working, fabricating, assembly oils, forming oils, mold release, quench oils, heat transfer oils, slushing oils, acid fume rust preventatives, corrosion inhibiting preservative formulas, etc. to protect ferrous and nonferrous metals. The BCI™ formulas can also be more volatile, allowing biobased carrier(s) to dissipate, leaving corrosion inhibitors and/or anti-wear-extreme pressure additives to remain on the surface of the metal parts, preventing wear and corrosion.

With BVCI™ products, ultra thin, highly protective films can be applied. Film thickness of 0.02 mils or less have been tested in the ASTM D-1748 Humidity Cabinet on polished cold rolled steel panels and test results from 20 to 60 days before failure are typical for these ultra-thin films. The volatile corrosion inhibitor formulas can be used to carry corrosion inhibitors into the air, releasing the corrosion inhibiting compounds on metal surfaces, preventing corrosion. This is highly effective when added to packaging or sealed containers where the corrosion inhibition can remain as a volatile corrosion inhibitor for a longer period, protecting metal parts. The formula allows the corrosion inhibitors to penetrate into close tolerance areas, preventing corrosion which allows for easier cleaning and/or paint preparation.

Adjusting these formulas to the application will prevent unnecessary waste, energy, and added expenses. Most of these products can be applied by dipping, spraying, or brushing.

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 vegetable 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, US Patent 6,624,124, US Patent 6,620,772 with additional Pending and Foreign Patents

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**Availability F.O.B. :Hartville, Ohio, USA 1 Gallon 5 Gallon Pail Drum Totes Bulk**