



Renewable Lubricants™, Inc.

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Bio-Blast™ Penetrant (DLA approved & field tested) **(Low Surface Tension)**



"Biobased Lubricants that Perform Like Synthetics"

Bio-Blast™ is a specially formulated, **high performance**, biodegradable, and fast acting penetrant that blows away rust, dirt, and also the competition. Bio-Blast's™ patented composition of additives and bio-solvents provides a fast penetrating catalyst that is non-staining to ferrous and non-ferrous metals. Corroded nuts and bolts shudder at the thought of Bio-Blast™. Bio-Blast™ displaces moisture and provides a high dielectric (47 kV ASTM D-877) insulating property in electrical equipment. Bio-Blast™ contains **no** hazardous Volatile Organic Compounds (VOCs).

Bio-Blast™ is formulated to penetrate into close tolerances and prevent corrosion. This product performs with a fast capillary wetting action that reduces surface tension, freeing up frozen parts. Bio-Blast™'s ability to creep is demonstrated by placing a 3/8" x 2" bolt on its head with 1/4" of Bio-Blast™ in the bottom of a lab beaker; Bio-Blast™ creeps vertically up the threads. This low surface tension technology has safety advantages over the competition by providing a non-flammable, non-combustible product according to DOT flash points. This product has exceptional benefits over petroleum solvents in these applications because there is direct loss of the penetrant into the water, soil, or work environment.

The advantages are many: biodegradable¹, renewable, low toxicity, no hazardous VOCs, safer, OSHA and ISO 14000 compliant, reduces foreign oil and helps secure the American economy. EPA, OSHA and Workers Acceptance is high with Biobased Products. Meets the **NEW** Federal Specification A-A-50493C (superceding V V-P-216)

Applications:

| -Military | -Industrial | -Home | -Transportation | -Marine | -Agricultural |
|------------------|--------------------|--------------|------------------------|------------------|----------------------|
| Humvee Doors | Tools | | Car Parts | Electrical Equip | Bolts |
| Jacks | Assembly Parts | | Wire Ropes | Rusty Chains | |
| Dies | Shafts | | Hinges | Firearms | |
| Locks | Linkage Cables | | Head Studs | Fishing Reels | |

Bio-Blast™ 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-BIOACUMMULATION** properties are required. Bio-Blast™ exceeds the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the U.S. EPA. Bio-Blast™ 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.

¹Ultimate 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 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: DIBBS | 11 oz Aerosol Can | 12 oz. Spray Bottle | 1Gal | 5 Gal Pail | 55 Gal Drum | Pint Plastic Bottle |
|----------------------------|--------------------------|----------------------------|--------------------|-------------------|--------------------|----------------------------|
| Item # RLI | 80352 | 80351 | 80353 | 80354 | 80356 | 80350 |
| A-A-50493C-A | II-9150-01-591-4274 | I-9150-01-598-9606 | I-9150-01-591-4247 | | I-9150-01-591-4281 | I-9150-01-591-4213 |

National Stock Number: A-A-50493C-A (Class A = biobased) –(Type I = Non Aerosol Type II= Aerosol)
(A-A-50493C 22 July 2011 SUPERSEDING A-A-50493B 30 August 2001)