



Renewable Lubricants, Inc.

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Bio-Shredder™ Machine Lubricant



"Bio-based Lubricants that Perform Like Synthetics"

Bio-Shredder™ Machine Lubricant is a blended highly refined vegetable based formula (Bio-based) that replace neutral petroleum mineral oils in light machine applications. This product has been Stabilized* to resist oxidation and provide excellent light color stability and is Food Grade². It is virtually aromatic, chlorine, and sulfur free. The base oil has been highly refined, bleached, deodorized and is high in oleic acid content for higher stability over conventional vegetable oils. This product provides excellent compatibility with rubber, plastics, general purpose elastomers, and other materials that this product may be in contact with. It provides excellent lubricity for recommended applications.

Bio-Shredder™ Machine Lubricant is a ENVIRONMENTALLY RESPONSIBLE base lubricant that is formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable material.

The advantages are many: biodegradable¹, renewable, low toxicity, no volatile organic compounds (VOCs), safer, more fire resistant, EPA and ISO 14000 compliant, reduces foreign oil, and helps secure the American Economy. OSHA and worker acceptance is high with bio-based oils.

Typical Specifications

API Gravity @ 60°F.	26.7
Pounds/Gallon @ 60°F.	7.45
Specific Gravity @60°F.	.89
VISCOSITIES:	
@100°C., cSt. (D-445)	7.18
@40°C., cSt. (D-445)	31.28
Viscosity Index (D-2270)	205
Flash Point, COC (D-92)	260°C
Pour Point, °C (D-97)	-20
Copper Corrosion (D-130) 3hr @ 100°C	1A
Acid Number (D-974)	0.08
Foam Sequence I, II, III (D-892) 10 min.	0 Foam
Rust Prevention, (D-665 A)	Pass Clean
4 Ball Wear Scar Diam (mm) (D-4172)	.65
Biogradability ¹ (D-5864) Pw1	Yes

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.

¹ Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

² Base oils and additives in this product are listed in 21 CFR 178.3570, Lubricants for incidental food contact (USDA H-1). Full compliance with other applicable restrictions of FDA, USDA, oil spill, and oil pollution prevention statutes is recommended.

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. :Bolton, ON, Canada** **1 Gallon** **5 Gallon Pails** **Drums** **Bulk**