



## Renewable Lubricants, Inc.

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### **Bio-Food Grade™ Cutting Oils (H1)**

**(Cutting Oils and Machine Lubes)**



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

Bio-Food Grade™ Cutting Oils are biobased food grade<sup>1</sup> lubricants for light to medium duty machining operations. The color can be classified as transparent, which permits viewing the cutting operations while in process and it is formulated to reduce smoke and mist. Performance is enhanced by use of the Stabilized HOBS's, natural fatty acid composition, which provides cutting tool wetting and oiliness; combined with excellent extreme pressure and antiwear technology. The super high viscosity index of the Stabilized HOBS adds additional load carrying properties in machining application. They are non-staining to aluminum and yellow metals, and may be used for machining both ferrous and non-ferrous metal alloys. These (BioPreferred<sup>sm</sup>) products do not contain active sulfur, chlorine, zinc, or heavy metals, and do not produce an abrasive odor.

The advantages are many: biodegradable, renewable, low toxicity, no hazardous volatile organic compounds (VOC), more fire resistant, safer, EPA and ISO 14000 compliant, reduces foreign oil, and helps secure the American Economy. OSHA and worker acceptance is high with biobased oils. Contains no animal byproducts and are manufactured under kosher supervision.

They are ENVIRONMENTALLY RESPONSIBLE lubricants formulated from renewable agricultural plant resources. Earth's environmental future rests in the use of renewable materials.

#### **Typical Specifications**

<b>ISO Grade</b>	<b><u>32</u></b>	<b><u>46</u></b>	<b><u>68</u></b>
Specific Gravity @60°F.	.88	.89	.89
VISCOSITIES:@ 100°C., cSt.	7.0	9.3	13.3
@40°C., cSt.	31.6	45.0	65.4
Viscosity Index	193	196	210
Flash Point, COC °C	230	241	249
Pour Point, °C	-35	-30	-25
Copper Corrosion ASTM D-130	1A	1A	1A
Rust Prevention ASTM D-665	No Rust	No Rust	No Rust
4-Ball Wear ASTM D-4172 (mm)	.35	.35	.35
4-Ball EP Weld Pt. ASTM D-2783 (kg)	200	200	200
Load Wear Index	47	47	47
<b>RLI Product Item #</b>	<b>88330</b>	<b>88340</b>	<b>88350</b>

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.

<sup>1</sup> Base oils and additives in this product are listed in 21 CFR 178.3570, Lubricants for incidental food contact (USDA H1). Full compliance with other applicable restrictions of FDA, USDA, oil spill, and oil pollution prevention statutes is recommended.

Patented Product with Pending and Foreign Patents

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