



## Renewable Lubricants, Inc.

Distributed By: DM's Bio-Based Fluid Supply Inc.  
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### **Bio-Metal Cool™ HD**

**Heavy-Duty Water Emulsifiable Metal Working Fluid**

### *"Bio-based Lubricants that Perform Like Synthetics"*

Bio-Metal Cool™ HD is a heavy-duty bio-based vegetable oil concentrate designed for use on both ferrous and nonferrous metals. This technologically advanced formula contains environmentally friendly, extreme pressure, antioxidants, and corrosion inhibitors to perform in many heavy-duty metalworking applications. This (Biopreferred<sup>sm</sup>), heavy-duty formula allows for higher speeds and feeds for improved productivity. It provides excellent corrosion protection and is fortified with metal deactivator for enhanced performance on aluminum and copper alloys. Performance is enhanced by use of the Stabilized\* HOBS's, natural fatty acid composition, which provides cutting tool wetting and oiliness. The super high viscosity index of the Stabilized HOBS adds additional lubrication qualities to this high performance lubricant. The formulation is free of diethanolamine, secondary amines, secondary amide emulsifiers, nitrite corrosion inhibitors, chlorinated EP additives, phenolic biocides, and nonylphenol non-ionic surfactants. Solutions are off-white to opaque and stable in the hardest of waters. Bio-Metal Cool HD is formulated to give long trouble-free service with a minimum of maintenance of its cleanliness. EPA, OSHA, and worker acceptance is high with the bio-based oils.

Bio-Metal Cool™ HD is ENVIRONMENTALLY RESPONSIBLE cutting oil that is formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable materials.

Dilution:	Bio-Metal Cool™ HD : Water
Grinding & Milling	1:20 to 1:30
General Machining	1:20 to 1:30
Drilling	1:10 to 1:20
Threading & Tapping	1:10 to 1:5
Light Drawing & Stamping	1:10 to 1:5

#### Typical Data:

9.0 pH @ 5% by volume in water  
5% dilution in 200 ppm hardness water (IP 125) No corrosion (0/0-0 results)  
Biodegradable in its neat form without preservative

This product is formulated with a preservative to prevent bacteria and fungus growth. Consult RLI's technical service for a neutral pH biocide if tank side application is required.

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 with additional Pending and Foreign Patents

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**Availability**

**F.O.B. :Bolton, ON, Canada**

**5 Gallon Pails**

**Drums**

**Bulk**