RENEWABLE PRODUCTS

BIODEGRADABLE

Lubrifiants bio haute performance

High Performance BioBased Lubricants
At BioBlend, we focus on the industrial side of the market (drilling fluids, hydraulic fluids, metalworking fluids, form releases, greases, etc.).

Globally, the entire finished lubricant market is evaluated at approximately 10 billion gallons annually. The global market for the industrial lubricant segment that we target is roughly 2.5 billion gallons annually. Since the U.S. and Canada consume roughly 20% of the global demand for lubricants, our target market in the U.S. and Canada is roughly 500 million gallons!

More and more people are switching to BioBlend from petroleum based lubricants. You know it’s the right choice... What are you waiting for?

EVERY GESTURE THAT WE UNDERTAKE TO SAVE THE ENVIRONMENT, BECOMES PART OF A WHOLE EFFORT, CONTRIBUTING TO THE HEALTH OF OUR PLANET FOR GENERATIONS TO COME. THIS IS A PRICELESS LEGACY.

LUBRICANT INDUSTRY

Canadian distribution
Crevier Lubricants Inc.
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Canada J4G 1E6
1.800.363.0590
www.crevierlubricants.ca
ABOUT BIOBLEND

BioBlend lubricants made their debut in the field in 2001. Since then, BioBlend continued to innovate and expand the product line to include not only biobased lubricants, but also food grade lubricants and synthetic lubricants. BioBlend’s goal is to help provide ecologically responsible, environmentally friendly products and solutions for industries such as drilling, construction, mining, agriculture, and marine while also providing a line of general purpose lubricants and greases for consumer use. BioBlend biodegradable products are designed to provide superior lubrication over a broad range of operating conditions by combining highly stable vegetable base oils with unique additive technologies to create products that provide excellent thermal and oxidative stability while delivering superior anti-wear and anti-corrosion protection. And because BioBlend products are readily biodegradable, they offer these performance advantages while adhering to the strictest standards of environmental responsibility.

We’ve been growing our company over 50% each year for the past 3 years. We’ve been able to do that because of the strong team we’ve put in place, our strong relationships with our distributor partners, our reputation in the marketplace, and delivering the highest quality products.

WITH BIOBLEND, YOU ARE GETTING INDUSTRY LEADING PERFORMANCE, COMPETITIVE PRICES, WITH ADDED BONUSES, THAT WITH CREVIER YOU ARE GETTING TOP NOTCH PERSONNALIZED SERVICE.
WHAT DOES BIODEGRADABLE MEAN?

The combination of “high performance” and “environmentally responsible” sounds like a great foundation for an advanced line of lubricants. While the phrase “high performance” translates easily into functional specifications, words like “environmentally responsible” or “biodegradable” too often are used as descriptors with no real meaning for lubricant users coping with environmentally sensitive applications and operations.

BIODEGRADABLE DEFINITIONS FOR LUBRICANTS

BIOBASED PRODUCTS:
As defined by the United States Secretary of Agriculture in the Farm Security and Rural Investment Act of 2002, is any manufactured, commercial, or industrial good (non-food) that is made up of biological materials or agricultural resources within the United States.

BIODEGRADATION:
Is the chemical breakdown of the base oil and additives into carbon dioxide and water, in the presence of organisms, air, and water.

INHERENTLY BIODEGRADABLE:
Means at least 20% of the product will have biodegraded in 28 days or less.

READILY BIODEGRADABLE - ULTIMATELY BIODEGRADABLE:
Means that 60% or more of the product will have biodegraded in 28 days or less. Nearly all BioBlend biodegradable products fit this category (OCDE 301-B).

RENEWABLE RESOURCE:
Is any natural resource (such as plants or solar energy) that can be replenished naturally with the passage of time.

SUSTAINABLE RESOURCE:
Is an available supply that can be drawn on when needed and is capable of being continued with minimal long-term effect on the environment.

TYPES OF OILS

Polyisobutylene (PIB)
0 - 25% biodegradable

PAO (synthetic)
5 - 30% biodegradable

Mineral Oil
15 - 35% biodegradable

White Oil (Mineral)
25 - 45% biodegradable

Polyols & Diesters
55 - 100% biodegradable

NATURAL & VEGETABLE OIL
70 - 100% BIODEGRADABLE
Conscious of the environment, we offer a wide range of products that are adapted to your needs.

MARKET SEGMENTS

AGRICULTURE
CONCRETE
CONSTRUCTION | DRILLING
FOOD PROCESSING
FORESTRY GOVERNMENT
LANDSCAPING
METALWORKING | MINING
MUNICIPALITIES
OILFIELD SERVICES
PARKS | PORT & MARINE
SKI | VINEYARD

FOOD GRADE LUBRICANTS

Aerosols
Air Tool Lubricants
All Purpose Greases
Chain and Cable Lubes
Cutting Fluids
Gear Oils
Hydraulic Fluids
Specialty Products
Synthetic Lubricants
White Oils
Wipe Down Oils

BIODEGRADABLE LUBRICANTS

Aerosols
Air Tool Lubricants
Asphalt Release Oils
Chain and Bar Lubricants
Chain and Cable Lubes
Concrete Form Release Oils
Cutting Fluids
Drill Rod Greases
Extreme Pressure Greases
Food Grade Lubricants
Gear Lubricants
General Purpose Greases
Heavy Duty EP Greases
Hydraulic Fluids
Machine Oils
Metal Working Fluids
Multi-Purpose Lubricants
Penetrating Oils
Plunger Packing Greases
Plunger Packing Lubricants
Rock Drill Oils
Specialty Products
**BIOBLEND MPO**
**BIODEGRADABLE MULTI-PURPOSE OIL**

**FOODSTREAM**

**FOODSTREAM**™** B**IOBLEND MPO is a readily biodegradable, biobased high performance multi-purpose lubricant designed for commercial, household, and general lubrication applications. It is ideal for use on oven and conveyor chains, wire ropes, cables, slides, open mechanisms, and light duty metal cutting and tapping applications. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior antiwear protection. BioBlend MPO is NSF registered (141200) as meeting the guidelines of an H1 product for incidental food contact.

**BIOBLEND PO**
**BIODEGRADABLE PENETRATING OIL**

**BIOBLEND**

**B**IOBLEND PO is an excellent penetrating oil and general purpose lubricant that is formulated from readily biodegradable renewable resource base stocks and additives. BioBlend PO has superior wetting ability and a high affinity for metal surfaces which offer excellent penetrating and loosening of frozen, rusted or stuck components. The “green” solvents used are excellent for dissolving dirt, grease and removing debris, while leaving a light lubricating film which helps control corrosion. As with any solvent-type product, care should be taken when using around certain plastics, foam rubbers, urethanes and painted surfaces as they can be incompatible.

**BIOBLEND PPL**
**BIODEGRADABLE PLUNGER PACKING LUBRICANT**

**BIOBLEND**

**B**IOBLEND PPL is a readily biodegradable lubricant for the fluid end of positive displacement reciprocating pumps, such as triplex/quintuplex pumps, used in oil and gas fields. It is formulated from ultra-low toxicity renewable resources and contains no mineral oil or metallic additives, thus greatly reducing environmental impact and liability compared to traditional lubricants. BioBlend PPL is designed to reduce wear on plungers, packing, and liners.

**BIOCUT - 1500, 2200, 3600, 4600**
**BIODEGRADABLE GENERAL PURPOSE CUTTING FLUID**

**BIOBLEND**

**B**IOCUT products are readily biodegradable, general purpose metal working fluids for ferrous and nonferrous metals. It can be used on a wide range of operations, including pipe threading, tapping, screw machines, and CNC machines. It is recommended where surface finish and tool life are critical. BioCut products are sulfur and chlorine free and are pleasant to work with for better operator acceptance. Available in ISO Grades 15, 22, 36 & 46.
THINK ABOUT HOW YOU AND YOUR EMPLOYEES CAN MAINTAIN YOUR CONSCIOUS EFFORT TO DO YOUR SHARE FOR THE ENVIRONMENT WHILE AT THE SAME TIME SAVING MONEY, AND PRESERVING OUR ENVIRONMENT. IT MAY TAKE A BIT MORE TIME AND EFFORT TO FIGURE OUT HOW TO MAKE MEANINGFUL CHANGES, BUT THE PAY-OFF IS WELL WORTH IT.

**BIOFLO AW**

**BIODEGRADABLE ANTI-WEAR HYDRAULIC FLUIDS**

*BIOFLO AW* biodegradable Anti-Wear Hydraulic Fluids are formulated from readily biodegradable renewable resources, high lubricity base oils coupled with proprietary nontoxic anti-wear and anticorrosion additives. These high performance products can reduce operating temperatures, friction, and component wear in mobile and industrial hydraulic systems. Excellent thermal and oxidative stability assure superior service life with minimal viscosity change over a broad range of operating temperatures. BioFlo AW fluids are suitable for use in ecologically sensitive applications. Available in ISO grades 32, 46 and 68, and also available as a Sheen-Free product.

**BIOFLO AWS**

**BIODEGRADABLE AW SYNTHETIC HYDRAULIC FLUID**

*BIOFLO AWS* biodegradable Anti-Wear synthetic hydraulic fluids are formulated from readily biodegradable renewable high lubricity natural and synthetic base stocks. These high performance products can reduce operating temperatures, friction and component wear in mobile and industrial hydraulic systems. Excellent thermal and oxidative stability assure superior service life with minimal viscosity change over a broad range of operating temperatures. Available in ISO grades 15, 22, 32, 46 and 68.

**BIOFLO S46**

**BIODEGRADABLE SYNTHETIC FLUID ISO46**

**FULLY SYNTHETIC HYDRAULIC FLUID BIOFLO S46** is formulated with a base of saturated ester. It meets the OECD standard 301-B and provides better performance in extreme temperatures and over long periods of time. It can reduce the operating temperature, the friction and wear of parts in industrial and mobile hydraulic systems. It offers a high thermal and oxidative stability, while maintaining a minimum viscosity in a wide temperature range. Available in ISO grades 22, 32 and 46.
**BIOFLO EO**
**BIODEGRADABLE ELEVATOR HYDRAULIC OIL**

**BIOFLO EO** is formulated from readily biodegradable, high lubricity base oils coupled with proprietary non-toxic rust and anti-corrosion additives. The special Rust & Oxidation (R&O) additives and anti-foam agents help provide maximum demulsibility of water and reduce air entrainment to provide higher circulation rates. This high performance formula can reduce operating temperatures, friction, and component wear in elevator hydraulic systems. Excellent thermal and oxidative stability assures superior service life with minimal viscosity change over a broad range of operating temperatures. ISO Grade 32.

**BIOFLO EOPLUS**
**BIODEGRADABLE HIGH OLEIC ELEVATOR HYDRAULIC OIL**

**BIOFLO EOPLUS** is formulated from readily biodegradable, High Oleic base oils coupled with proprietary non-toxic rust and anti-corrosion additives. The special Rust & Oxidation (R&O) additives and anti-foam agents help provide maximum demulsibility of water and reduce air entrainment to provide higher circulation rates. This high performance formula can reduce operating temperatures, friction, and component wear in elevator hydraulic systems. Excellent thermal and oxidative stability assures superior service life with minimal viscosity change over a broad range of operating temperatures. Available in ISO grade 32.

**BIOFLO FG**
**BIODEGRADABLE FOOD GRADE AW HYDRAULIC FLUID**

**FOODSTREAM™ BIOFLO FG** is a readily biodegradable, high performance food grade lubricant that meets the requirements for high-pressure anti-wear hydraulic fluids for the food processing industry. BioFlo FG is NSF registered as meeting the guidelines of an H1 product for incidental food contact. Excellent lubricity and temperature stability provide efficient power transfer and superior service life with minimal viscosity change over a broad range of applications. Available in ISO grades 32 and 46.
**BIOFLO UTF**
**BIOBLEND**

**BIODEGRADABLE UNIVERSAL TRACTOR FLUID**

**BIOFLO UTF** is formulated from readily biodegradable, high lubricity base oils coupled with proprietary anti-wear and anti-corrosion additives to meet the requirements for Universal Tractor/Transmission Oil (UTTO), drive train/hydraulic fluid. This high performance formula can reduce operating temperatures and component wear in mobile and industrial hydraulic systems. Excellent thermal and oxidative stability assures superior service life with minimal viscosity change over a broad range of operating conditions. BioFlo UTF is suitable for use in ecologically sensitive applications or wherever a readily biodegradable, high performance UTTO is required.

**BIOGEAR EP**
**BIOBLEND**

**BIODEGRADABLE EXTREME PRESSURE GEAR LUBRICANT**

**BIOGEAR EP** is a series of readily biodegradable extreme pressure gear lubricants designed for a variety of industrial and mobile equipment applications. Each grade of BioGear EP is designed to replace standard gear lubes within the AGMA grades. The BioGear EP series offers excellent thermal and oxidation stability and reduces operating temperatures to ensure superior service life with minimal gear, shaft, and bearing wear, all in a readily biodegradable, environmentally friendly formula. Available in ISO grades 68, 100, 150, 220 and 320.

**BIOGREASE DR³**
**BIOBLEND**

**BIODEGRADABLE DRILL ROD GREASE**

**BIOGREASE DR³** is the ideal environmentally friendly solution for drill rod applications. It is formulated from high purity vegetable oils and thickened with very shear stable lithium soap. The additive package contains the latest in ashless, environmentally friendly, rust and anti-wear technology. This provides rust protection not only while the rod is in service, but also for extended periods while the rod is in storage. BioGrease DR³ utilizes an optimized blend of polymers which enables the product to function at temperatures well beyond the limits of other vegetable based products, as well as improving water resistance, pumpability, and adhesion to the rod in service while minimizing torque.

**BIOGREASE HD**
**BIOBLEND**

**BIODEGRADABLE HEAVY DUTY GREASE**

**BIOGREASE HD** is a readily biodegradable, non-toxic Lithium 12-OH Stearate grease designed to provide high film strength, withstand high operating temperatures, maintain excellent stability, and extended lubricant life. BioGrease HD features a high viscosity base oil for high load-carrying capabilities and anti-wear characteristics along with low water washout properties. It is designed for heavy-duty use in a variety of industrial, mobile, and marine applications. Available in NLGI grades 1 and 2.
**BIOGREASE XT**
SYNTHETIC GREASE EXTREME

**BIOGREASE XT ARCTIC** (extreme temperature) is a grease that has been formulated to achieve the best performance under extreme temperature conditions. Arctic Biogrease XT is made from synthetic esters which allows it to be used in a wide range of temperatures while having a minimal impact on the environment. This grease provides adequate protection for your equipment without the use of Moly and without diminishing performance in very cold climates. Biogrease XT Arctic is pumpable in your equipment at temperatures as low as -40 °C.

**BIOGREASE PPG**
BIODEGRADABLE PLUNGER PACKING GREASE

**BIOGREASE PPG** is specifically designed for plunger packing lubrication of triplex and quintuplex pumps. BioGrease PPG is made from a high quality vegetable oil base with a special blend of polymers to provide low temperature pumpability, excellent adhesion to the plunger, and minimize friction while providing an excellent seal in the system. Pumpability is critical in these pumps and BioGrease PPG offers excellent performance at a very wide range of temperatures. In addition, this ultra-low toxicity grease is made from bio-based, sustainable base stocks, and is readily biodegradable if released in the environment. Available in NLGI grades 1, 0, 00.

**BIOGREASE RC¹**
BIODEGRADABLE EXTREME PRESSURE RAIL CURVE GREASE

**BIOGREASE RC¹** is a readily biodegradable, Lithium 12-OH Stearate based rail curve lubricant designed to provide high film strength, withstand heavy load applications, and maintain excellent stability. BioGrease RC¹ features high load carrying and anti-wear characteristics along with low water washout properties. In addition, this product contains organic friction modifiers, special polymers for water resistance and adhesion, and graphite to dampen sound and improve overall performance.

**BIOLUBE ATFG**
BIODEGRADABLE FOOD GRADE AIR LINE & TOOL OIL

**FOODSTREAM** BIOBLEND

**FOODSTREAM** BIOBLEND is a readily biodegradable, food grade compressed air line and pneumatic equipment lubricant and is NSF registered as meeting the guidelines of an H1 product for incidental food contact. Its vegetable base oil virtually eliminates petroleum hydrocarbons and VOCs, while its anti-misting, de-gumming and lubricity additives provide maximum performance and equipment protection.
**BIOLUBE C&C32P**
BIODEGRADABLE PENETRATING CHAIN & CABLE LUBE

**BIOLUBE C&C32P** is a readily biodegradable chain and cable lubricant designed for oven and conveyor chains, wire ropes, and cables. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior anti-wear protection.

**BIOLUBE C&C46**
BIODEGRADABLE CHAIN & CABLE LUBRICANT

**BIOLUBE C&C46** is a readily biodegradable chain and cable lubricant designed for oven and conveyor chains, wire ropes, and cables. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior anti-wear protection. Use BioLube C&C32P where a lighter viscosity product is required and more penetration is needed.

**BIOLUBE CBC**
BIODEGRADABLE CHAIN SAW BAR & CHAIN OIL

**BIOLUBE CBC** is a readily biodegradable chain saw bar and chain lubricant designed for chain saws used in forestry, landscaping and similar applications. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior anti-wear protection while its added tackiness minimizes sling loss. BioLube CBC is readily biodegradable formula protects vegetation, wildlife and the environment, and is suitable for the lubrication of chain saws and similar wood cutting equipment in all ecologically sensitive environments. This product is offered in two viscosities, ISO 46 and ISO 100. The 46 is preferred in colder conditions and the 100 is preferred in warmer conditions.

**BIOLUBE CFR**
BIODEGRADABLE CONCRETE FORM RELEASE

**BIOLUBE CFR** is a readily biodegradable renewable resource formulated as a concrete release agent for the concrete construction forming industry for both indoor and outdoor applications. It is designed to produce a void free concrete surface and aid in the release of the form from hardened concrete on a wide range of forming materials without creating a chemical action or causing harm to the concrete. BioLube CFR’s low toxicity formula protects vegetation, wildlife, and the environment and is easy to apply with a brush, spray, or roller. Wood forms after repeated use will become water repellent and last longer. Coverage is approximately 600 to 1,500 square feet per gallon depending on form material.
BIOLUBE CFR<sub>SOLUBLE</sub>  
BIODEGRADABLE SOLUBLE CONCRETE  
FORM RELEASE

BIOLUBE CFR<sub>SOLUBLE</sub> is a readily biodegradable renewable resource formulated as a water soluble concrete release agent for the concrete construction forming industry for both indoor and outdoor applications. It is designed to produce a void free concrete surface and aid in the release of the form from hardened concrete on a wide range of forming materials without creating a chemical action or causing harm to the concrete. The formula for BioLube CFR<sub>Soluble</sub> protects vegetation, wildlife, and the environment and is easy to apply with a brush, spray, or roller. This product performs effectively when diluted with up to 5 parts water (5:1).

BIOLUBE RD  
BIODEGRADABLE HEAVY DUTY  
ROCK DRILL FLUID

BIOLUBE RD is a readily biodegradable, heavy duty rock drill lubricant designed to meet the requirements of pneumatic tools, down-hole and surface drilling equipment. It is formulated with high viscosity index vegetable base oil, anti wear additives, and corrosion protection. BioLube RD's natural polarity and tackiness additive allows the lubricant to adhere to tooling surfaces further reducing corrosion and wear in the presence of compressed air. The wear reduction performance greatly reduces the incidence of premature bit shanking and lowers operating costs.

BIOLUBE RDP  
BIODEGRADABLE PNEUMATIC  
ROCK DRILL FLUID

BIOLUBE RDP is a series of readily biodegradable renewable resource, designed to give maximum protection to pneumatic percussion rock drills, jackhammers and drifter drills. The BioLube RDP series offers excellent thermal and oxidation stability and reduces operating temperatures to ensure superior service with minimal impact on the environment. Available in ISO grades 46, 100, 150, 220 and 320.

RESPECT FOR THE ENVIRONMENT IS A NEED FOR FUTURE GENERATIONS  
NOW LET'S BE RESPONSIBLE AND CHOOSE TO USE A BIODEGRADABLE LUBRICANT.
ADDITIONAL SERVICES

Crevier lubricants Inc. and its distributors will assist you in converting your equipment with biodegradable fluids that allow you to meet the most stringent requirements in terms of environmental requirements while ensuring performance under severe weather conditions.

A national registry is updated regularly to maintain the compliance status of biodegradable fluids in your equipment.

A certificate of compliance is given for each device that has been converted with Bioblend fluids.

LUBRICANT ANALYSIS

Crevier Lubricants Inc. provides critical support to your preventive maintenance program by providing sampling, testing, and analysis of lubricants in a systematic way. This approach is a profitable way to manage your operations. These services may include:

1. Monitoring for incipient lubricant oxidation and breakdown
2. Particle count
3. Wear-metal analysis for lubricant and equipment optimization
4. Performance alerts before critical breakdown occurs
5. Data analysis and preventive recommendations from Crevier Lubricants technicians
6. Bio-environmental compliance certification
A CERTIFICATE OF COMPLIANCE IS GIVEN FOR EACH EQUIPMENT WHICH HAS BEEN CONVERTED TO BIOBLEND FLUIDS.

We will provide a certificate of compliance for each equipment, that uses our lab facility for certification and by following our conversion procedures.