



Biodegradable
Recyclable

United Bio Lube

Enabling Compliance with White House Executive Order 13423
Strengthening Environmental, Energy, & Transportation Management

Sustainable
Renewable



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A Green Chemistry Company

Enabling U.S. Oil Independ

Bio Penetrating Lubricants



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Bio Penetrant Product
Overview
BPL™ - Bio Penetrating Lubricant + Corrosion Inhibitor
BPL™ + Food Grade Tackifier
BPL™ + Molybdenum
BPL™ + Moly + Tackifier

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KEY BENEFITS ▼ SAFETY ▼ PROPERTIES ▼ APPLICATIONS ▼ USAGE ▼ COMPATIBILITY ▼

Product Info

Data Sheet

MSDS

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Material Safety Data Sheet

BPL™ - Bio Penetrating Lubricant + Molybdenum

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Go Green! BPL™ Soy-based Renewable Lubricant Replaces Hazardous WD40!

SECTION 1 - CHEMICAL PRODUCT IDENTIFICATION

TRADE NAME:	BPL - Bio Penetrating Lubricant + Molybdenum
CAS NO:	Mixture.
SYNONYMS:	None.
GENERIC/CHEMICAL NAME:	Mixture.

PRODUCT TYPE: Hydraulic Oil (Biodegradable)
PREPARATION/REVISION DATE: 06/01/2006
TRANSPORTATION EMERGENCY PH NO: (CHEMTREC) 1-800-424-9300
(Outside US) (703) 527-3887

NFPA CODE: HEALTH: 1 FIRE: 2 REACTIVITY: 0

HMS CODE: HEALTH: 1 FIRE: 2 REACTIVITY: 0

SECTION 2 - COMPOSITION/INFORMATION OF INGREDIENTS

- This material does not contain any chemical listed as a carcinogen or potential carcinogen by **OSHA, IARC Monographs** or **National Toxicology Program**.
- **This material has no known hazards.**
- All components of this material are on the **U.S. TSCA Inventory** or are exempt.

SECTION 3 - PHYSICAL DATA

EVAPORATION RATE: (n-Butyl Acetate=1) Approx. = 0
PERCENT VOLATILE: 0 %
BOILING POINT: > 300 °C (572 °F)
VAPOR PRESSURE: < 5 mm Hg @ 72 °F
VAPOR DENSITY: (Air = 1) < 1
SPECIFIC GRAVITY: (H2O = 1) 0.88 @ 15.6 °C
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Light Golden Liquid; Mild odor.

SECTION 4 - HANDLING AND STORAGE

HANDLING PROCEDURES: Keep containers closed when not in use. Wash thoroughly after handling.
STORAGE PROCEDURES: Store in a cool and well ventilated place. Empty containers may retain product properties.
Follow all MSDS and LABEL warnings after container is emptied.
No special storage precautions required.
STORAGE TEMPERATURES: Ambient.
STORAGE PRESSURES: Atmospheric

SECTION 5 - STABILITY AND REACTIVITY

STABILITY:	Material is normally stable at moderately elevated temperatures and pressures.
INCOMPATIBILITY:	Strong oxidizing agents.
POLYMERIZATION:	Will not occur.
THERMAL DECOMPOSITION:	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	Contains Vegetable Oil Base Stock. OSHA PEL of 5 mg per cubic meter. ACGIH STEL of 10 mg per cubic meter for mineral oil mists.
EFFECTS OF OVEREXPOSURE:	May cause eye and skin irritation. Low order of toxicity.

SECTION 7 - EXPOSURE CONTROL - PERSONAL PROTECTION

VENTILATION PROCEDURES:	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
GLOVES PROTECTION:	Use nitrile or neoprene gloves.
EYE PROTECTION:	Safety glasses, chemical goggles or face-shield.
RESPIRATORY PROTECTION:	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
CLOTHING RECOMMENDATION:	Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Launder contaminated clothing before reuse.

SECTION 8 - EMERGENCY AND FIRST AID PROCEDURES:

ORAL:	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention
EYE:	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
SKIN:	Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
INHALATION:	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists, get medical attention.
ADDITIONAL:	Note to physician: Treat symptomatically.

SECTION 9 - FIRE FIGHTING MEASURES

FLASH POINT (COC):	146 °C, 295 °F
UPPER FLAMMABLE LIMIT:	Not Determined
LOWER FLAMMABLE LIMIT:	Not Determined
EXTINGUISHING MEDIA: (Air = 1):	CO ₂ , dry chemical, alcohol foam. Water can be used to cool and protect exposed material.
SPECIAL FIRE-FIGHTING PROCEDURES:	Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water

SECTION 10 - SPILLS OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:	Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts on inert material for disposal.
WASTE DISPOSAL METHOD:	This material is non-hazardous for disposal under RCRA. Disposal should be in compliance with federal, state and local laws.

SECTION 11 - TOXICOLOGICAL INFORMATION

CARCINOGENICITY:	IARC - Not Listed. OSHA - Not Regulated. NTP - Not Listed. No Component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH , the International Agency for Research on Cancer (IARC) or the European Commission (EC)
REPRODUCTIVE TOXICITY:	This product contains no chemicals known to cause cancer, birth defects, or other reproductive harm. This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs , or National Toxicology Program
HEALTH WARNINGS:	INHALATION: Oil mist can irritate airways and lungs. SKIN CONTACT: Prolonged or repeated contact may lead to irritated skin. EYE CONTACT: Irritating to eyes. INGESTION: Could cause Stomach ache or vomiting.
ROUTE OF ENTRY:	Inhalation. Skin and/or Eye contact. Ingestion.

SECTION 12 - ECOLOGICAL INFORMATION

ULTIMATE BIODEGRADATION (PW1):	Ultimate Biodegradation (Pw1) > 60% within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants .
AQUATIC TOXICITY:	LC50 > 1000 PP.

SECTION 13 - DISPOSAL INFORMATION

Recycle whenever possible. Do not reuse containers. Dispose of in accordance with all Federal, State, and Local regulations regarding pollution and waste disposal. Product as supplied contains no listed hazardous waste. It also does not meet the definition for an unspecified corrosive or ignitable waste.

SECTION 14 - TRANSPORTATION INFORMATION

ROAD TRANSPORT (ADR):

UN NO. Road: UN1950, Class2.2
DOT Classification: Aerosols, Non-Flammable, Class 2.2
ADR Class: Not dangerous according to ADR

SEA TRANSPORT (IMDG): UN1950, Class 2

Sea Transport Notes:

AIR TRANSPORT (IATA/ICAO): UN1950 Aerosols, Non-Flammable, Class 2.2

Air Transport Notes:

SECTION 15a - REGULATORY INFORMATION

HAZARD LABELLING:

Label For Supply: EM - No label required; NL - No Label required.
Risk Phrases: Not classified in the **Annex I of Directive 67/548/EEC.**
 No R-Phrases required.
Safety Phrases: Not classified.
 No safety phrases given.

SECTION 15b - REGULATORY INFORMATION - GLOBAL CHEMICAL INVENTORIES

USA All components of this material are listed on the **U.S. TSCA Chemical Inventory** (or are exempt).
EU All components are in compliance with the **EC Seventh amendment Directive 92/32/EEC.**
Japan All components are in compliance with the **Chemical Substance Control Law of Japan.**
Australia All components are in compliance with the **Chemical Notification Requirements in Australia.**
Canada All components are in compliance with the **Canadian Environmental Protection Act.**
Switzerland All components are in compliance with the **Environmentally Hazardous Substances Ordinance.**

- China** All components of this material are listed on the **Inventory of Existing Chemical Substances**.
- Korea** All components are in compliance with **Korean Environmental Laws**.
- Philippines** All components are in compliance with the **Philippines Toxic Substance and Hazardous and Nuclear Waste Control Act of 1990** (R.A. 6969)
- TSCA** All components of this material are listed on the **U.S. TSCA Chemical Inventory** (or are exempt).
- CEPA** All ingredients in this product are listed or exempt from the listing on the **Canadian DSL/NDSL**.
- SARA313** This product contains no toxic chemicals subject to the requirements of **Section 313** of the **Emergency Planning and Community Right-To-Know Act of 1986** (40CFR372).
- CER CLA RQ's** None.
- Proposition 65** This product contains no chemicals known to the **State of California** to cause cancer, birth defects, or other reproductive harm.

STATES RIGHT-TO-KNOW: No listing for the following: CA Prop 65, FL, MA, MI, MN, NJ, PA, RI

U.S. FEDERAL REGULATIONS:

- SEC. 302/304** Reportable Quantity of Extremely Hazardous Substance: **NONE**
- SEC. 302** Threshold Planning Quantity of Extremely Hazardous Substance: **NONE**
- SEC. 311/312** Hazard Categories: **NONE**
- SEC. 313** Toxic Chemical Reportable Ingredients: **NONE**
- SEC. 40CFR372** Toxic Chemical Reportable Ingredients: **NONE**
- HMIS Rating** HEALTH=1 FLAMMABILITY=2 REACTIVITY=0 PP=B
- WHMIS Rating** (Canada) Not a WHMIS controlled material.

SECTION 16 - OTHER INFORMATION

MSDS Issue Date: 06/26/2007
Validated by: William W. Garmier

Read and follow all label directions and precautions before using the product.

Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local laws and regulations.

KEEP OUT OF REACH OF CHILDREN

NA = Not Available or Not Applicable
 NE = Not Established

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