SAFETY DATA SHEET

Issue Date: 15 May 2015

Revision date: 13 June 2019

Version 1.1

1. - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifierBio-Penetrating Lubricant BPL 11 oz Can Type II AerosolOther means of identificationFroduct code:Product code:80002CAS NO:MixtureSynonyms:None

Recommended use of the chemical and restrictions on use

Biobased Lubricant, (Biodegradable), Compliant, EPA-VGP-EAL

Details of the supplier of the safety data sheet

<u>Supplier and Manufacture</u>

Recommended Use:

Renewable Lubricants, Inc. 476 Griggy RD NE, P.O. Box 474 Hartville, Oh 44632 Phone: (330) 877-9982 Fax: (330) 877-2266 www.renewablelube.com, www.renewablelubricants.com

Emergency telephone number

Emergency Telephone

(CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887

SECTION 2 - HAZARDS IDENTIFICATION Classification OSHA Regulatory Status This meets 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Gases under pressure Compressed Gas Label elements Signal word WARNING: Hazard statements Contains gas under pressure; may explode if heated Odor: Mild WARNING: Appearance: Light golden liquid as sprayed Physical state: Aerosol Odor: Mild WARNING: Contains gas under pressure: may explode if heated

WARNING: Contains gas under pressure; may explode if heated Storage and handling: Protect from sunlight. Store in a well-ventilated area. Dispose of contents/container in accordance with local/regional regulations. Hazards not otherwise classified (HNOC)

Other information

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

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SECTION 3 - COMPOSITION/INFORMATION on INGREDIENTS

No Hazardous Substance(s) or Complex Substance(s) required for disclosure. As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4 - FIRST AID MEASURES		
Eye contact: Skin contact:	Flush eye with water for 15 minutes. If symptoms persist, call a physician.4 Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.	
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.	
Ingestion:	Do not induce vomiting. If conscious, drink plenty of water. Obtain medical attention.	
Most important symptoms and effects, both acute and delayed		
Symptoms:	No information available.	

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically

SECTION 5 - FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media:</u> Use dry chemical, CO2, water spray or "alcohol" foam. Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

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<u>Fire Fighting Instructions:</u> Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Incomplete combustion products, Smoke, Fume, Oxides of carbon.

<u>Specific hazards arising from the chemical:</u> In the event of fire, cool tanks and protect personnel with water spray. FLASH POINT (PMCC) 146°C (295°F)

Explosion data:

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

Special protective equipment for firefighters:

Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment.

Environmental precautions

Environmental precautions: Prevent product from entering drains. Do not contaminate surface water. Check on local, national and international regulatory information to determine any reporting requirements for spills.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so, confine spill immediately with booms.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), or skimming surface with suitable absorbent, then transfer non-combustible material in approved containers.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Keep containers closed when not Material Name: Bio-Penetrating Lubricant BPL 11 oz Can Type II Aerosol Page 2 of 6 Issue Date: 15 May 2015

in use. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions:

Keep containers tightly closed and store inside in a cool well-ventilated place free of contaminants. Empty containers may retain product properties. Follow all MSDS / SDS Label warnings after container is emptied. Do not store outside and use general maintenance practices.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Exposure Guidelines			
Components	ACGIH TLV	OSHA (TWA mg/m 3):	IDLH
Oil Mist	5 mg/m 3	5 mg/m 3	

Appropriate engineering controls

Engineering measures to reduce exposure: Use appropriate exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection:	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection:	Nitrile rubber Neoprene gloves
Eye protection:	Safety glasses
Skin and body protection:	Impervious clothing
General Hygiene Considerations:	Avoid contact with skin, eyes and clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Typical information on basic physical and chemical properties

Specific Gravity $(H_2O = 1)$:	.88 @ 15.6°C
Flash Point (PMCC):	146°C (295°F)
Kinematic viscosity:	5 cSt @ 40°C
Pour Point:	-30°C (-22°F)
Explosive properties:	Material does not have explosive properties.
Oxidizing properties:	See Section 2, No significant hazards.
Volatile Organic Compound (VOC):	Components contain No VOC according to CARB
Physical state	Liquid
Appearance	Oil
Odor	Mild
Color	Light golden liquid
Odor threshold	Not Determined
Melting: point/freezing point:	Not Determined
Boiling point /boiling range:	Not Determined
Flammability (solid, gas):	Not Determined
Flammability Limit in Air	Not Determined
Evaporation rate: (n-Butyl Acetate=1)	Approx. <1
Percent Volatile:	Not Determined
Boiling Point:	Not Determined
Vapor Density (Air = 1):	<1
Vapor pressure:	Not Determined
Solubility in Water:	Insoluble
Upper flammability limit:	Not Determined
Lower flammability limit:	Not Determined
Partition coefficient:	Not Determined
Autoignition temperature:	Not Determined
Decomposition temperature:	Not Determined

Other information

The above data are typical values and do not constitute a specification.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:

Not applicable

Material Name: Bio-Penetrating Lubricant BPL 11 oz Can Type II Aerosol Page 3 of 6 Issue Date: 15 May 2015

Chemical stability:	Stable under normal conditions
<u>Possibility of Hazardous Reactions</u> Possibility of Hazardous Reactions: Hazardous polymerization:	None under normal processing Hazardous polymerization does not occur
Conditions to avoid:	Protect from sun light, Store in well ventilated area
Hazardous Decomposition Products:	None under normal processing
Incompatible materia:	Oxidizing agents

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	Contact with eyes may cause irritation. May cause mild, short-lasting discomfort to eyes based on assessment of the components.
Skin contact	Acute Toxicity: Minimally Toxic, based on assessment of the components. Substance does not generally irritate and is only mildly irritating to the skin with prolonged exposure.
Inhalation	Acute Toxicity: Minimally Toxic, based on assessment of the components.
	Irritation: Negligible hazard at ambient/normal handling temperatures.
Ingestion	Acute Toxicity: Minimally Toxic, based on assessment of the components and structurally similar materials.
Aspiration	Not expected to be an aspiration hazard, based on physical and chemical properties of the material.
Respiratory Sensitization	Not expected to be a respiratory sensitizer, based on assessment of the components and structurally similar materials.
Germ Cell Mutagenicity	Not expected to be a germ cell mutagen, based on assessment of the components and structurally similar materials.
Carcinogenicity	Not expected to cause cancer, based on assessment of the components and structurally
	similar materials. This product does not contain any carcinogens or potential carcinogens as listed by OSHA,
	IARC or NTP.
Reproductive Toxicity	Not expected to be a reproductive toxicant, based on assessment of the components.
Lactation	Not expected to cause harm to breast-fed children.
Specific Target Organ Tox	icity (STOT) Single Exposure: Not expected to cause organ damage from a single exposure.
	Repeated Exposure: Not expected to cause organ damage from prolonged or repeated exposure.

OTHER INFORMATION

Product Information: Product does not present an acute toxicity hazard based on known or supplied information. Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No known hazards to the aquatic environment, compliant with EPA-VGP-EAL

Biodegradation: Readily/Ultimate Biodegradable. Based on previous biodegradability studies, the product provides Ultimate Biodegradation Pw1 >60% within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants.

Aquatic/Ecotoxicity: Based on previous studies, (OECD 201, 202, and 203) LC50/EC50 >3,000 ppm (3000 mg/L).

Bioaccumulation: No Potential to Bioconcentrate

Soil Mobility: Not Established

Persistence and degradability: Readily biodegradable >60% after 28 days

Water Mobility: The product is insoluble and floats on water. WGK: 1

SECTION 13 - DISPOSAL INFORMATION

Waste treatment methods

Material Name: Bio-Penetrating Lubricant BPL 11 oz Can Type II Aerosol Page 4 of 6 Issue Date: 15 May 2015 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Do not reuse container.

SECTION 14 - TRANSPORTATION INFORMATION

ROAD TRANSPORT (ADR/RID):	Not regulated.
DOT HAZARD CLASSIFICATION: DOT SHIPPING NAME:	ORM-D CONSUMER COMMODITY
UN NO. Road DOT Classification	UN1950, Class 2.2 Aerosols, Non-Flammable, Class 2.2
ADR class	Not dangerous according to ADR.
SEA TRANSPORT (IMDG):	Aerosol (limited quantity), Class 2.2, UN 1950
Sea transport notes	Marine Pollutant: NO
AIR TRANSPORT (IATA/ICAO):	Aerosols (limited quantity), Class 2.2, ERG 126, UN 1950
Air transport notes	Aerosols Under Pressure, Non-flammable Aerosol

SECTION 15 - REGULATORY INFORMATION

International Inventories TSCA: Listed in TSCA

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory

Global Chemical Inventories:

USA	All components of this material are on the US TSCA 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 Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are
	Canadian DSL/NDSL.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes
	Control Act of 1990 (R.A. 6969).
TSCA:	All ingredients in this product are listed or exempt from listing on the TSCA Chemical inventory.
CEPA:	All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.
Proposition 65:	This product contains no chemicals know to the State of California to cause cancer, birth defects of other
	reproductive harm.

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Material Name: Bio-Penetrating Lubricant BPL 11 oz Can Type II Aerosol Page 5 of 6 Issue Date: 15 May 2015 Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations (RTK)

California Proposition 65

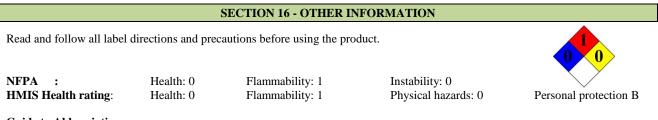
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any known chemical substance on the SARA Extremely Hazardous Substances list.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable



Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CARB = California Air Resource Board, CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Revision:

Date	Revised Section
15 May 2015	new
1 June 2016	Section 9, Flash Point (PMCC)
20 May 2019	Section 7&12
13 June 2019	Section 7

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