

SAFETY DATA SHEET

Issue Date: 15 May 2015

Revision date: 15 May 2015

Version 1

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

Product identifier

Product Name: Bio-Power Winter Diesel Fuel Conditioner (Soy-Based)

Other means of identification

Product code: 80411, 80412, 80413, 80414, 80416, 80417, 80419

CAS NO: Mixture

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Biobased Fuel concentrated additives: Methyl Ester, distillate fuel detergents/dispersant

Details of the supplier of the safety data sheet

Supplier and Manufacture

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 material is hazardous according to regulatory guidelines (see SDS Section 15).

This meets 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Signal Word: **DANGER**



GHS Signal Word: **DANGER**

GHS Classifications:

Physical, Flammable Liquids, 4
 Health, Serious Eye Damage/Eye Irritation, 2 A
 Health, Skin corrosion/irritation, 2
 Health, Specific target organ toxicity - Single exposure, 3
 Health, Acute toxicity, 4 Inhalation
 Health, Acute toxicity, 4 Dermal
 Health, Acute toxicity, 4 Oral
 Health, Carcinogenicity, 2
 Health, Aspiration hazard, 1
 Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Phrases:

H227 - Combustible liquid
 H319 - Causes serious eye irritation
 H315 - Causes skin irritation
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H332 - Harmful if inhaled
 H312 - Harmful in contact with skin
 H302 - Harmful if swallowed
 H351 - Suspected of causing cancer
 H304 - May be fatal if swallowed and enters airways
 H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P240 - Ground/bond container and receiving equipment.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P273 - Avoid release to the environment.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302+352 - IF ON SKIN: Wash with soap and water.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses.

Continue rinsing.

P308+313 - IF exposed or concerned: Get medical advice/attention..

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.

SECTION 3 - COMPOSITION/INFORMATION on INGREDIENTS

Ingredients:

Chemical Name	Percentage	CAS#
Non-hazardous material	45.0 - 55.0	Proprietary
Light aromatic solvent naphtha	< 20.0	64742-95-6
1,2,4-Trimethylbenzene	< 10.0	95-63-6
Heavy aromatic solvent naphtha	< 10.0	64742-94-5
1,3,5-Trimethylbenzene	< 3.0	108-67-8
Xylene	< 2.0	1330-20-7
Naphthalene	< 2.0	91-20-3

This formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have

Material Name: Bio-Power Winter Diesel Fuel Conditioner (Soy-Based) Page 2 of 7

Issue Date: 15 May 2015

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

- Inhalation:** If symptoms develop, move victim to fresh air.
If symptoms persist, obtain medical attention.
- Skin Contact:** Wash with soap and water.
Remove contaminated clothing and wash before reuse.
Get medical attention if needed.
- Eye Contact:** Flush with water for several minutes.
If effects occur, consult a physician.
- Ingestion:** Rinse mouth with water and drink 2-4 cups of water.
Get immediate medical attention.

Note to Physician:

Activated charcoal may be administered.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: 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.

Fire Fighting Instructions: 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.

Specific hazards arising from the chemical: In the event of fire, cool tanks and protect personnel with water spray.
FLASH POINT (PMCC) 70 C (158 F)

Explosion data:

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	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

Eliminate sources of ignition - Heat, sparks, flame, and electricity

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 Precautions: Avoid contact with eyes, skin, or clothing.
Keep away from sources of ignition.
Handle with care and avoid spillage on the floor (slippage).
Do not cut, weld, grind, braze, or solder the container

Storage Requirements: **Keep away from sources of ignition.**
Store in a tightly closed container

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed and store in a cool well-ventilated place free of contaminants.
Empty containers may retain product properties. Follow all MSDS / Label warnings after container is emptied. No special storage precautions required.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines:

LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM)

OSHA TWA: 500 ppm

1,2,4-TRIMETHYLBENZENE

ACGIH TWA: 25 ppm

XYLENE

OSHA TWA: 100 ppm, 435 mg/m³

ACGIH TWA: 100 ppm, 434 mg/m³

OSHA STEL: 150 ppm, 655 mg/m³

ACGIH STEL: 150 ppm, 651 mg/m³

NAPHTHALENE

OSHA PEL: 10 ppm, 50 mg/m³

OSHA TWA: 10 ppm, 50 mg/m³

ACGIH TWA: 10 ppm, 52 mg/m³

OSHA STEL: 15 ppm, 75 mg/m³

ACGIH STEL: 15 ppm, 79 mg/m³

1,3,5-TRIMETHYLBENZENE

ACGIH TWA: 25 ppm

Appropriate engineering controls

Engineering measures to reduce exposure: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

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 (H₂O = 1):	.88 @ 15.6°C
Flash Point (PMCC)	(PMCC) 70 C (158 F)
Kinematic viscosity:	
Pour Point:	Not Determined
Physical state	Liquid
Appearance	Dark liquid
Odor	Not Determined
Color	Dark 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)	Not Determined
Percent Volatile:	Not Determined
Boiling Point:	Not Determined
Vapor Density (Air = 1):	Not Determined
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

<u>Materials to Avoid:</u>	Avoid strong oxidizing agents
<u>Chemical stability:</u>	Stable under normal conditions
<u>Possibility of Hazardous Reactions</u>	
Possibility of Hazardous Reactions:	Not Determined
Hazardous polymerization:	Not Determined
<u>Conditions to avoid:</u>	High temperatures above 50 C (122 F), sparks, and open flame.
<u>Hazardous Decomposition Products:</u>	May burn or react violently to flourine/oxygen mixtures.
<u>Incompatible material:</u>	Avoid Oxidizing agents

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Repeated skin contact with this product may cause dermatitis or an oil acne. No component is listed as a mutagen or teratogen.
Eye contact	Contact with eyes may cause irritation. May cause mild, short-lasting discomfort to eyes based on assessment of the components. Solvent Petroleum Naphtha, slightly irritating (rabbit)..
Skin contact	Solvent Petroleum Naphtha, no deaths reported at 4 ml/kg (Rat). Slightly irritating (rabbit, 4 hour(s)
Inhalation	Solvent Petroleum Naphtha, no deaths at 710 ppm (v) (Rat) 4 Hour (s).
Ingestion	Solvent Petroleum Naphtha, LD50, 10 ml/kg in rats.
Aspiration	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 Determined.
Specific Target Organ Toxicity (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. no deaths at 710 ppm (v) (Rat) 4 Hour (s).

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.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Avoid exposing to the environment, no specific aquatic data available.

Biodegradation: This product shows biodegradation based on OECD 301-type test data for similar products. At least 50% of the components in this product show Biodegradation based on ASTM D-5864 type test data.

Aquatic/Ecotoxicity: Not Established

Bioaccumulation: Not Established

Soil Mobility: Not Established

Persistence and degradability: Not readily biodegradable.

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

SECTION 13 - DISPOSAL INFORMATION

Waste treatment methods

Disposal of wastes: 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): This material is not regulated for US DOT transportation in quantities less than 119 Gallons..

DOT HAZARD CLASSIFICATION: This material is not regulated for US DOT transportation in quantities less than 119 Gallons.

DOT SHIPPING NAME:

UN NO. Road

DOT Classification

UN #: NA 1993, Class:

UN #: NA 1993, Class

SEA TRANSPORT (IMDG): Not regulated

AIR TRANSPORT (IATA/ICAO): If shipping overseas, or via air, the proper shipping name is: Flammable liquid, n.o.s., (Contains Petroleum Naphtha, Polyolefin alkyl phenol alkyl amine), 3, UN1993, PGIII.

Air transport notes

If shipping overseas, or via air, the proper shipping name is: Flammable liquid, n.o.s., (Contains Petroleum Naphtha, Polyolefin alkyl phenol alkyl amine), 3, UN1993, PGIII.

SECTION 15 - REGULATORY INFORMATION

UN #: NA 1993, Class: -, Proper Shipping Name: Combustible liquid, n.o.s.

This material is not regulated for US DOT transportation in quantities less than 119 Gallons.

If shipping overseas, or via air, the proper shipping name is: Flammable liquid, n.o.s., (Contains Petroleum Naphtha, Polyolefin alkyl phenol alkyl amine), 3, UN1993, PGIII.

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

Not Available

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

Not Available

CERCLA

Not available

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

SECTION 16 - OTHER INFORMATION

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

NFPA : Health: 1 Flammability: 2 Instability: 0
HMIS Health rating: Health: 1 Flammability: 2 Physical hazards: 0 Personal protection B
 Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Renewable Lubricants, Inc. knowledge; however, Renewable Lubricants, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OF FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Renewable Lubricants Inc. assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.