MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

General Product Name:	G-Oil 2 Cycle Bio-Based Synthetic Green Engine Oil
Synonyms:	None
Product Description:	Lubricant for Air Cooled 2 Cycle Engines
CAS Number:	Mixture
ASTM:	D 4859-97
Manufacturer:	**Green Earth Technologies, Inc.** 1136 Celebration Blvd. Celebration, Florida 34747, U.S.A. Phone: (877) 438-4761 Technical Assistance: (877) 438-4761

Section 2: Hazards Identification

Appearance:	Green Colored Liquid
Odor:	Mild
Principal Hazards:	**This material has no known health hazards**

This material is not considered hazardous by the OSHA Hazard communication Standard 29 CFR 1910. 1200.
See Section 11 for complete health hazard information.

Section 3: Composition/Information on Ingredients

Chemical Name	**CAS Number**
Fatty Acids, Tallow, Methyl Esters	61788-61-2
Additive Compounds	Proprietary
Engine Oil Booster	Compound
Pour Point Depressant	Compound
Canola oil	120962-03-0

Section 4: First Aid Measures

Eyes:	Flush with water for 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.
Oral:	DO NOT INDUCE VOMITING. Get immediate medical attention.
Additional Information:	Note to physician: Treat symptomatically.

Section 5: Fire Fighting Measures

Flash Point:	363.2° F (ASTM D 92)
Extinguishing Media:	CO_2, dry chemical, water spray (fog) or foam. Water stream may splash the burning liquid and spread fire.
Firefighting Procedures:	Recommend wearing self-contained breathing apparatus. Use water spray to cool drums exposed to fire.
Unusual Fire & Explosion Hazards:	Not determined.

Section 6: Accidental Release Measures

Spill Procedures:	Recommend Personal Protective Equipment be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Remove sources of ignition, contain spill to smallest area possible. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Grease nature will result in a slippery surface.

Section 7: Handling and Storage

Max. Handling Temp.:	75° C, 167° F
Handling Procedures:	Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Max. Storage Temp.:	45° C, 113° F
Storage Procedures:	No special storage precautions required.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:	None established
Engineering Controls:	Use with adequate ventilation
Gloves Procedures:	Use nitrile gloves
Eye Protection:	Safety Glasses
Respiratory Protection:	Under normal use conditions, respirator in not required
Clothing Recommendation:	Under normal use conditions, no special clothing is required. Launder contaminated clothing before reuse.

Section 9: Physical and Chemical Properties

Flash Point:	363.2° F
Upper Flammable Limit:	Not determined
Lower Flammable Limit:	Not determined
Explosion Data:	Material does not have explosive properties
Vapor Pressure:	Not determined
pH:	Not determined
Specific Gravity @ 60° F:	0.87
Bulk Density:	Not determined
Water Solubility:	Insoluble
Percent Volatile:	Unknown
Volatile Organic Compound:	Not determined
Vapor Density:	Not determined
Evaporation Rate:	Not determined
Odor:	Mild
Appearance:	Green Colored Liquid
Viscosity:	45.7 Centistokes (@ 40° C) 11.09 Centistokes (@ 100° C)
Odor Threshold:	Unknown
Boiling Point:	Not determined
Pour Point Temperature:	-24° C, -11° F
Melting/Freezing Point:	Not determined

Section 10: Stability and Reactivity

Stability:	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temp.:	Not determined
Incompatibility:	Oxidizing Agents, Acids, Halogens, Halogenated Compounds
Polymerization:	Will not occur
Thermal Decomposition:	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid:	Not determined

Section 11: Toxicological Information

***ACUTE EXPOSURE ***

Eye Irritation:	Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation:	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
Respiratory Irritation:	Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oils.
Dermal Toxicity:	The LD50 in rabbits is >2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity:	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity:	The LD50 in rats is >5000 mg/Kg. Based on data from components or similar materials.
Dermal Sensitization:	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization:	No data available to indicate product or components may be a respiratory sensitizer.

CHRONIC EXPOSURE

Chronic Toxicity: No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity: No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

Mutagenicity: No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: No data available to indicate product or components present at greater than 0.1% may cause reproductive toxicity.

Teratogenicity: No data available to indicate product or components contained at greater than 0.1% may cause birth defects.

ADDITIONAL INFORMATION

Other: No other health hazards known.

Section 12: Ecological Information

ENVIRONMENTAL TOXICITY

Freshwater Fish Toxicity: The acute LC50 is >1000 mg/L based on component data.

Freshwater Invertebrates Toxicity: Not determined

Algal Inhibition: The acute EC50 is >1000 mg/L based on similar materials.

Saltwater Fish Toxicity: Not determined

Saltwater Invertebrates Toxicity: Not determined

Bacteria Toxicity: The acute EC50 is >1000 ppm based on component data.

Miscellaneous Toxicity: Not Determined

ENVIRONMENTAL FATE

Biodegradation: This product is rated Ultimate Biodegradable in which it will biodegrade greater than or equal to 60% in 28 days.

Bioaccumulation: This material displays no potential to bio concentrate.

Section 13: Disposal Considerations

Waste Disposal: This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

Section 14: Transport Information

ICAO/IATA (US):	Not regulated
ICAO/IATA (International):	Not regulated
IMDG:	Not regulated
IMDG EMS Fire:	Not applicable
IMDG EMS Spill:	Not applicable
IMDG MFAG:	Not applicable
IMO Marine Vessel:	Do Not Transport – Additional Information Required
US Barge:	Do Not Transport – Additional Information Required
USCG Compatibility:	Not determined
U.S. DOT Bulk:	Not regulated
U.S. DOT Non-bulk:	Not regulated
DOT NAERG:	Not applicable
TDG Bulk:	Not regulated
TDG Non-bulk:	Not regulated
Mexico:	Not regulated
Mexico Non-bulk:	Not regulated
Bulk Quantity:	85000 liters, 22457 gal.
Non-bulk Quantity:	207.8 liters, 55 gal.

Review classification requirements before shipping materials at elevated temperatures.

Section 15: Regulatory Information

	Global Chemical Inventories
USA:	All components of this material are on the US TSCA Inventory or are exempt .
OTHER TSCA Reg.:	None known
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 present on the Domestic Substances List.
Switzerland:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
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)

China: All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Other U.S. Federal Regulations

SARA Ext. Haz. Subst.: This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313: This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classification:

Acute Hazard	No
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

CERCLA Hazardous Substances: None Known

FDA Approval: Not Applicable

Product Registrations

U.S. Fuel Registration: Not applicable
U.S. Dept of Agriculture: Not registered
NSF Nonfood Compounds Registration: Not registered
Finnish Registration: Not registered
Swedish Registration: Not registered
Norwegian Registration: Not registered
Danish Registration: Not registered
Swiss Registration: Not registered
Italian Registration: Not registered
Korean Registration: Not registered
New Zealand Registration: Not registered
TDG Regulated Limit: None known

Section 16: Other Information

US NFPA Codes:

Health	Fire	Reactivity	Special
0	0	0	None Established

HMIS Codes:

Health	Fire	Reactivity
0	0	0

Precautionary Labels: **"This material has no known health hazards"**