

**Bio-Green
Bicycle Lubrications**

Material Safety Data Sheet

Dumonde Design Group Inc.

PRODUCT IDENTIFICATION

PRODUCT NAME: Dumonde Bio Green G Series G11, G10, G5

MSDS#: Bio 042008

DATE ISSUED: 4/20/08

SUPERSEDES: None

ISSUED BY: Dumonde Design Group Inc.

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dumonde Bio-Green Bicycle lubes

Manufacturer: Dumonde Design Group, Inc.

Product Code: BG1100, BG1000, BG500

Address: P.O. Box 3262

Synonyms: Bio Degradable Bicycle Lube

Kirkland, WA 98082-3262

(425) 806-0948

Distributor:

HG NR: (503) 285-.2322

SECTION 2 HAZARDS IDENTIFICATION

Volatile Ingredients: 2% to 40%

Product is Combustible.

Ingredients: Citrus oils, plant oils with balance other terpene hydrocarbons and oxygenated compounds. Product is a by-product of citrus, plants entirely of natural origin, and to the best of our knowledge and belief contains no artificial flavors, sulfites, nitrites, or pesticide residue exceeding tolerances established by the FDA. Bio Green G11, G10, G5 do NOT contain lead, cadmium, mercury, or hexavalent chromium or come in contact with these chemicals since it is derived from essential oils. G11, G10, G5 do NOT contain and is NOT manufactured with any of the Class 1 or 11 ozone-depleting substances listed under the United States Clean Air Act of 1990.

Hazardous Materials Identification System – HMIS:

1 Health Mild skin irritant

2 Flammability Flashpoint above 100F

0 Reactivity – Stable

G Protection – Safety glasses, gloves & respirator recommended

SECTION 3 PHYSICAL DATA

Appearance: Light Green, Green, Blue Green

Odor: Orange aroma, Mild orange aroma, Mild lemon-lime aroma

Flashpoint (co) lisp: 113F 119p

Boiling Point: 310p 325F 332F

Evaporation Rate: Medium/Slow

Water Solubility: insoluble

Vapor Pressure (20 C): 2mmHg

Percent Volatile by Volume 2%-40%

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flashpoint (cc): 115F,

Flammable Limits: LEL = 0.7% UEL = 6.1%

Extinguishing Media: Carbon dioxide, foam or dry chemical

Special Fire Fighting Procedures: SCEA recommended. Smother to exclude air. Do not use water. Handle as an oil fire.

Unusual Fire and Explosive Hazards: Combustible liquid. Keep away from heat, sparks, and open flame. Guard against spontaneous combustion of improperly discarded oily rags.

Incompatibility (Materials to avoid): Strong oxidizing agents and acidic agents including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.
Hazardous Decomposition Materials: Smoke may be acrid and fume irritating. Burning generates Co, CO₂ and smoke.
Hazardous Polymerization: None described
Conditions to Avoid for Polymerization: Polymerization catalysts such as aluminum chloride and acidic clays.
Stability Considerations: Stable
Conditions to avoid for Stability: Avoid temperatures over 115F.

SECTION 5: HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): Product is harmful if swallowed. Ingestion may cause vomiting, headache and other medical problems. May be irritating to skin and eyes. Skin contact may cause slight redness. Contains a potential skin sensitizer.

Eye contact can cause moderate to high irritation, inhalation can cause nose, throat and respiratory tract infection, coughing and headache.

Prolonged or repeated exposure can cause drying, defatting, and dermatitis of skin.

Signs and Symptoms of Exposure: Product may be irritating to the skin, eyes, nose and throat.

Medical Conditions Generally Aggravated by Exposure: Persons with allergies or pre-existing skin conditions should avoid contact with this product.

Emergency & First Aid Procedures

Eyes: Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

Ingestion: Seek medical attention immediately. Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Do not leave victim unattended. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing inhalation. If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

SECTION 6: TOXICOLOGICAL DATA

Acute Eye Irritation: Eye irritation, rabbit Severely irritating.

Acute Skin Irritation: Skin irritation, rabbit, Severely irritating. Acute Dermal Toxicity: LD₅₀ - >5 g/kg, rabbit.

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: LD₅₀ - >5 g/kg, rat.

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIS to be "probable" or "suspected" human carcinogens.

Ecotoxicological Information: No test data found per product

SECTION 7 – SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled: Use protective gloves to avoid skin contact. Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal.

Do not hose spills down drains, sewers or waterways. Move leaking containers to well ventilated area. No smoking.

Eliminate any source. CAUTION: slippery on floor.

Waste Disposal Method: Incinerate or Dispose in Accordance with Local, State, and Federal Regulations. Taking regulations into consideration, waste may be incinerated or handled through EPA spill control plan via land fill or dilution.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not normally required. If vapor concentration becomes high, use OSHA approved respirators.

Ventilation: Local exhaust should be adequate. Mechanical ventilation otherwise recommended if necessary.

Eye Protection: Safety goggles or glasses suggested.

Skin Protection: Oil resistant gloves.

Other Protective Equipment: Oil resistant apron, emergency eye wash and shower stations.

Appropriate Hygienic Practices: Wash thoroughly after handling. Launder contaminated clothing before re-use.

SECTION 9: SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Usual Precautions for combustible liquids.

Handling and Storage Precautions: Store in sprinkled warehouse

Avoid contact with incompatible chemicals listed in Section IV.

Store in tightly sealed, full containers at temperatures below 70F. Partially filled drum containers should be blanketed with nitrogen.
Other Precautions: Product may expand slightly in storage causing pressure to build in container. Open container carefully if product appears to be under pressure.
Drum lining may occasionally chip and fall to bottom of container after long storage or excessive "handling".
As a precaution, pour liquid through filter/strainer to catch small pieces of liner before blending or repackaging.
Commercially clean empty containers before re-use.
CAUTION: Do not weld or cut empty containers (Vapors May Ignite)

SECTION 10: REGULATORY INFORMATION

Inventory: Status:
United States (TSCA) Listed on the Inventory. Canada (DSL)

SECTION 11: TRANSPORTATION INFORMATION

G 10 BIO GREEN BIKE LUBES is a combustible liquid. Its proper shipping name is "Combustible Liquid N A 1993" and No DOT label is mandated.

SECTION 12: ADDITIONAL INFORMATION

National Fire Protection Association Hazard Rating: NFPA(R):
1 Health Hazard Mild
2 Flammability: Moderate
0 Reactivity: Minimal

MSDS Date June 5, 2008
Last Revision October 13, 2010
Reason for Revision Formula Change

Key Legend Information:
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer

FOR ADDITIONAL INFORMATION CONTACT

DUMONDE DESIGN GROUP INC. (425) 806-0948
HG NR INC. (Distributor) Health Administration (503) 285-2322

DUMONDE DESIGN GROUP, INC. BUSINESS HOURS: PACIFIC TIME

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***** END OF MSDS *****
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