

**1. IDENTITY**  
**super·bio·fuel™**Lumina Products Inc  
10 Waterline Drive  
Greensboro, North Carolina 27455

United States Version:

Preparation Date: 22/Feb/2013

Revision Date: 23/Mar/2013

For Information: +1 336.644.4192  
Online Safety + Emergency Info [www.luminaproducts.com/safety](http://www.luminaproducts.com/safety)  
Chemical Name: ORGANIC SUPER·BIO·FUEL™ / NON-FLAMMABLE\*  
Manufacturer's Code: SBF Formula 8-888  
Trade Name: SUPER·BIO·FUEL™  
HMIS:  
Health: 0  
Flammability: 1  
Reactivity: 0

Product Appearance and Odor:

Clear, colorless liquid; mild sweet antiseptic smell (astringent), odorless when burned.

**2. INTENDED USE**

Fuel for Indoor and Outdoor Ventless Fireplaces, Party Lights, Fire Pots, Fire Pits and Wicked Devices. Requires engineered fiberglass batting or wicks to start and sustain a flame. Not for human or animal consumption.

**3. HAZARDOUS INGREDIENTS / INFORMATION ON INGREDIENTS**

May cause eye or skin irritation with susceptible persons. May be harmful if swallowed. No components are believed to be hazardous, or listed in the NIOSH Recommendations for Occupational Safety and Health Standards 1988 or are listed as hazardous by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the other ingredients. Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Non Hazardous Components\* [ \* trade secret, name withheld: hazards and treatments fully disclosed]

|                        |       |                 |
|------------------------|-------|-----------------|
| Proprietary Diol       | CAS * | Weight: 75%-95% |
| Proprietary Additives  | CAS * | Weight: 2%-15%  |
| Proprietary Ingredient | CAS * | Weight: 2%-7%   |

**4. FIRST AID PROCEDURES / NO KNOWN IRRITANTS**

| Acute Effects:                   | Possible Effect   | Remedy  |
|----------------------------------|---|---|
| Eyes:                            | May cause slight irritation.  | Flush area with cool water for 15 minutes.        |
| Skin:                            | May cause slight irritation.<br>Repeated exposure may cause skin dryness or cracking. | Rinse area well with soapy water as a precaution. |
| Ingestion:                       | May be harmful if swallowed.  | Drink water to dilute, seek medical attention.    |
| Inhalation:                      | Avoid sustained breathing of vapors or mist from liquid.                              | Move to fresh air and ventilate area.             |
| Chronic Effects:                 | Repeated, excessive exposures may cause central nervous system effects.               |   |
| Aggravated Medical Conditions:   | Central Nervous System  |   |
| Potential Environmental Effects: | See Section 11 for additional information   |   |
| Toxicological Information:       | See Section 10 for additional information   |   |

**5. FIRE FIGHTING INFO**

**Flammable Properties:** May ignite if exposed to intensive heat and a source of ignition. Unable to ignite under 200° F. Material may pose a fire risk hazard because it is dispersed (or spread) by water stream.

**Suitable Extinguishing Media:** Extreme wetting and cooling agents (**STOP FIRE FAST!**), Dry Powder, Alcohol-resistant foam. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

**Unsuitable Combustion Products:** Thermal decomposition (bulk spill) can lead to release of irritating gases and vapors, Carbon monoxide (CO) and Carbon dioxide (CO2).

**Explosion Data:**

Sensitivity to impact: No information available. Highly unlikely.

Sensitivity to static discharge: No information available. Highly unlikely. Flash Point: 200° F (unable to ignite under 200° F)

Specific Hazards: Risk of ignition above 200° F. Keep product and empty container away from heat and sources of ignition.

**NFPA:**

|                |                          |
|----------------|--------------------------|
| Health 0       | Stability & Reactivity 0 |
| Flammability 1 | Physical Hazard -        |

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Ensure adequate ventilation. Avoid high-pressure washing or generation of aerosols. Use personal protective equipment. Material can create slippery conditions.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

**Cleanup Methods:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING & STORAGE**

**Handling** Ensure adequate ventilation.  
**Storage** Keep in a dry cool place. Reseal containers after opening. To maintain product quality, do not store in heat or direct sunlight. Keep at temperatures not exceeding 104° F.

**8. PHYSICAL CHARACTERISTICS**

**Appearance:** Clear liquid.  
**pH:** No information available.  
**Odor:** Mild Sweet antiseptic (Astringent) Does not contain D-Limonenes.  
**Flash Point:** 200° F / Will not ignite below 200° F.  
**Auto-Ignition:** Above 1,000° F.  
**Water Solubility:** Miscible.  
**Shelf Life:** Five (5) Years when stored in closed containers between 32°F and 95°F. Avoid freezing and thawing.  
**Residue:** Non after burning.

**9. STABILITY & REACTIVITY**

**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Extremes of temperature and direct sunlight.  
**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizing agents.  
**Hazardous Decomposition Products:** No Information Available.  
**Hazardous Reactions:** Hazardous polymerization does not occur.

**10. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY, Product Information.**

**LD50 Oral:** No Information Available.  
**LD50 Dermal:** No Information Available.  
**LD50 Inhalation:** No Information Available.

**TOXICOLOGICAL DATA FOR THE COMPONENTS**

| Chemical Name          | Weight % | LS50 Oral        | LD50 Dermal         | LD50 Inhalation               |
|------------------------|----------|------------------|---------------------|-------------------------------|
| Proprietary Diol       | 75-95%   | 20,000 mg/kg Rat | 20,800 mg/kg Rabbit | >317042 mg/m <sup>3</sup> air |
| Proprietary Additive   | 2-15%    | N/A              | N/A                 | N/A                           |
| Proprietary Ingredient | 2-5%     | 90 mg/kg Rat     | N/A                 | N/A                           |

**CHRONIC EFFECTS:** No component of this product present at levels greater than 0.1% is identified as a known or anticipated carcinogen.

**OSHA** Not Listed.  
**ACGIH** Not Listed.  
**NTP** Not Listed.  
**Mexico** Not Listed.  
**IARC** Not Listed.

**Irritation:**

Eye, rabbit 500 mg 24H MLD

**Sensitization:**

No Information Available

**Mutagenic Effects:**

No Information Available

**Developmental Effects:**

Animal testing did not show any effects on fetal development

**Corrosivity:**

No Information Available

**Neurological Effects:**

No Information Available

**Reproductive Effects:**

No Information Available

**Target Organ Effects:**

No Information Available

**11. ECOLOGICAL INFORMATION**

**ECO-TOXICITY EFFECTS, Component Information.**

| Chemical Name (Trade Secret) | Weight % | Acute Fish Toxicity  | Daphnia (water flea)  | Other   |
|------------------------------|----------|--|---|---|
| Proprietary Diol             | 75-95%   | LC50: 96h 40,613 mg/L<br>(Oncorhynchus mykiss) static static<br>LC50: 96h 51,400 mg/L<br>(Pimephales promelas) static<br>LC50: 96h 51,600 mg/L<br>(Oncorhynchus mykiss) static | EC50: 48h 1,000 mg/L<br>(Daphnia magna)<br>EC50: 24h 10,000 mg/L<br>(Daphnia magna) | Saltwater Algae Skeletonema costatum DC50: 96h 19,1000 mg/L |

**Persistence / Degradability:**

Expected to be biodegradable.

**Bioaccumulation / Accumulation:**

No Information Available.

**Mobility:**

Mobile with water.

**12. DISPOSAL CONSIDERATIONS:**

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

**Waste Disposal Methods:** Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.

**Contaminated Packaging:** Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

**13. TRANSPORT INFORMATION:**

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated. IATA Not regulated. IMDG/IMO Not regulated.

**14. REGULATORY INFORMATION:****USA:****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

This product is not known to contain any chemicals which are subject to the requirements and regulations contained in 40 CFR 372.

**SARA 302**

This product is not known to contain any chemicals which are expected to be subject to the requirements and regulations contained in 40 CFR 302

**SARA 311/312 Hazardous Categorization**

|                       |    |
|-----------------------|----|
| Acute Health Hazard   | No |
| Chronic Health Hazard | No |
| Fire Hazard           | No |

**Sudden Release of Pressure Hazard**

|                 |    |
|-----------------|----|
| Reactive Hazard | No |
|-----------------|----|

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) May contain trace HAPs.

**15. OTHER INFORMATION**

The information provided herein is given in good faith, but no warranty, expressed or implied, is made.

The information presented in this MSDS is believed to be factual. However, nothing contained in this information is to be taken as a warranty of any kind by Lumina Products Inc. The user should review any recommendations, in the specific context of the intended use, to determine whether they are appropriate.

END REPORT