

1. IDENTITY
super·bio·fuel™

Marble Dimensions Worldwide
731 Congress Park Drive
Dayton, Ohio 45459

United States Version:

Preparation Date: 22/Feb/2013

Revision Date: 22/Aug2021

For Information: +1 937.435.7900
Online Safety + Emergency Info www.marbledimensions.com

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night **+1 800.424.9300**

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; odorless, and 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. This fuel has no substances that are listed in the California Safe Drinking Water and Toxic Enforcement Act of 1986, codified at Health and Safety Code section 25249.5 et seq., commonly referred to as "Proposition 65". 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%-97%
Proprietary Ingredient	CAS *	Weight: 1%-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.	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, 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 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.

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 ³ 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 (Oncorhynchus mykiss) static static LC50: 96h 51,400 mg/L (Pimephales promelas) static LC50: 96h 51,600 mg/L (Oncorhynchus mykiss) static	EC50: 48h 1,000 mg/L (Daphnia magna) EC50: 24h 10,000 mg/L (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

1. IDENTITY

SBF STARTER FLUID

Marble Dimensions Worldwide
731 Congress Park Drive
Dayton, Ohio 45459

United States Version:

Preparation Date: 13/Jun/2016

Revision Date: 30/Aug/2021

For Information:

+1 937.435.7900

Online Safety + Emergency Info

www.marbledimensions.com

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

+1 800.424.9300

Chemical Name:

SUPER·BIO·FUEL™ + Ethyl Alcohol

Manufacturer's Code:

SBF-STARTER FLUID

Trade Name:

SUPER·BIO·FUEL™ STARTER FLUID

HMIS:

Health:

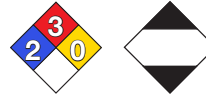
2

Flammability:

3

Reactivity:

0



Product Appearance and Odor:

Clear, colorless liquid; antiseptic smell, odorless when burned.

2. INTENDED USE

Starter Fluid for use only to ignite SUPER.BIO.FUEL being used for Indoor and Outdoor Ventless Wicked Devices designed to burn SUPER.BIO.FUEL.

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. This fuel has no substances that are listed in the California Safe Drinking Water and Toxic Enforcement Act of 1986, codified at Health and Safety Code section 25249.5 et seq., commonly referred to as "Proposition 65". Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Ingredients [* trade secret, name withheld: hazards and treatments fully disclosed]

Proprietary Diol	CAS *	Weight: 45%-55%
Proprietary Ingredient	CAS *	Weight: 1%-3%
Ethyl Alcohol	CAS 64-17-5	Weight: 45%-55%

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.	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:

At temperatures above 58° F Starter Fluid will ignite if exposed to source of ignition.

Material may pose a fire risk hazard because it is dispersed (or spread) by water stream.

Suitable Extinguishing Media:

Extreme wetting and cooling agents, 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 dioxide (CO2).

FLASH POINT:

58°F (14°C) TCC

70°F (21°C) TOC

NIOSH approved respirators should be worn. Use water spray to cool equipment and to disperse vapors. Alcohol flames may be difficult to see because they are virtually colorless. Extinguishing Media: Water, carbon dioxide, "alcohol-type foam", or dry chemical.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all source of ignition. Stop leak if without risk. Flush spill away with water spray.

Wear NIOSH approved respirator.

Personal Precautions:

Ensure adequate ventilation. Avoid high pressure washing. Use personal protective equipment.

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.

Material is classified as a flammable liquid. Keep liquid and its vapors away from heat, sparks, open flame and ignition sources.

8. PHYSICAL CHARACTERISTICS

Appearance: Clear liquid.
 pH: No information available.
 Odor: Mild Sweet antiseptic (Astringent) Does not contain D-Limonenes.
 Flash Point: 58° F / Will not ignite below 58° F.
 Auto-Ignition: Above 1,000° F.
 Water Solubility: Miscible.
 Residue: None after burning.

9. STABILITY & REACTIVITY

Chemical Stability: Stable under normal conditions.
 Condition to Avoid: Heat, sparks, open flame, extreme heat.
 Materials to avoid: Oxidizing materials can cause vigorous reaction
 Hazardous Decomposition: None. Like any other organic material, combustion will produce carbon dioxide and possible carbon monoxide.
 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	45-55%	20,000 mg/kg Rat	20,800 mg/kg Rabbit	>317042 mg/m ³ air
Proprietary Additive	1-7%	N/A	N/A	N/A
Ethyl Alcohol	45-50%		N/A	N/A

Overexposure maybe fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes skin, eye, and upper respiratory track infection. Can cause central nervous system depression.

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

Possible damage to liver, heart and kidneys if ingested.

OSHA	Not Listed.	NTP	Not Listed.
ACGIH	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	45-55%	LC50: 96h 40,613 mg/L (Oncorhynchus mykiss) static	EC50: 48h 1,000 mg/L (Daphnia magna)	Saltwater Algae Skeletonema costatum DC50: 96h
		EC50: 24h 10,000 mg/L	19,1000 mg/L	
		LC50: 96h 51,400 mg/L (Pimephales promelas) static	(Daphnia magna)	
		LC50: 96h 51,600 mg/L (Oncorhynchus mykiss) static		
Ethyl Alcohol	45%-55%	No ingredients that are listed in California "Proposition 65"		

Persistence / Degradability: Expected to be biodegradable. **Mobility:** Mobile with water.
Bioaccumulation / Accumulation: No Information Available.

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: Ship as LIMITED QUANTITY when bottles in 1-Liter Bottles

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	Yes

Sudden Release of Pressure Hazard

Reactive Hazard	No
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Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) May contain trace HAPs.

California Regulations

This starter fluid has no substances, and no components that are listed in the California Safe Drinking Water and Toxic Enforcement Act of 1986, codified at Health and Safety Code section 25249.5 et seq., commonly referred to as "Proposition 65".

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