

# SAFETY DATA SHEET



SDS No.:  
 Date Created: April 28, 2016  
 Supersedes: NA

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** SOIL MAXIMIZER  
**General Use:** Natural Organic Soil Amendment  
**Product Description:** Black Liquid

**MANUFACTURER**  
 BioScientific, Inc.  
 4405 S. Litchfield Road  
 Avondale, Arizona 85323

**EMERGENCY TELEPHONE NUMBER:**  
 (800)-424-9300 CHEMTREC USA & CANADA  
 +1 (703) 527-3887 Int'l & Maritime

## 2. HAZARD IDENTIFICATION

Components having exposure limits established by recognized authorities

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)			
	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL
Humic Acid/Humates	None Established	None Established	None Established	None Established
Potassium Hydroxide	None Established	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	None Established

## EMERGENCY OVERVIEW

### GHS CLASSIFICATION OF SUBSTANCE

<b>Flammable Liquid</b>	Not Applicable
<b>Aspiration Toxicity</b>	Not Applicable
<b>Skin Irritation</b>	No classification Under GHS
<b>Eye Irritation</b>	No classification Under GHS
<b>Carcinogenicity</b>	No classification Under GHS
<b>Specific Organ Toxicity Repeated Exposure</b>	No classification Under GHS
<b>Specific Organ Toxicity Single Exposure</b>	No Classification Under GHS
<b>Reproductive Toxicity</b>	No Classification Under GHS
<b>Acute Toxicity</b>	No Classification Under GHS
<b>Germ Cell mutagenicity</b>	No Classification Under GHS
<b>Hazardous to the aquatic env.</b>	No classification Under GHS

### GHS LABEL ELEMENTS

No Pictogram

No Signal Word

**Hazard Statements**

H320 - May cause eye irritation if splashed into the eyes

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## Precautionary Statements

### General:

P101 - If medical advice is needed, have product container or label at hand.

### Prevention:

P262 - Do not get in eyes, on skin, or on clothing.

### Response:

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P338+351 - EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

P337+P313 - If eye irritation persists: Get medical advice/attention.

### Storage/Disposal:

P402+P404 - Store in a dry place. Store in a closed container at ambient temperature.

## UN GHS

According to the Globally Harmonized Standard for Classification and Labeling (GHS), this product is considered non-hazardous. Eye contact is a concern because of potential to irritate eyes.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Humates	10 - 20	1415-93-6
Potassium Hydroxide	<1	1310-58-3
Soluble Kelp	<1 - 2	NA
Composted Animal Manure	<0.1	NA

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## 4. FIRST AID MEASURES

### INHALATION:

Material is not sufficiently volatile to create an inhalation hazard unless it is aspirated as a mist in some manner.

If inhalation exposure is suspected, remove person to fresh air and seek medical attention if the person shows any signs of distress and/or allergic response.

### EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes.

If necessary, gently hold the eyelid open during the flush. If eye irritation persists, seek medical attention.

### SKIN CONTACT:

Immediately wash skin with soap and plenty of water. Consult a physician if redness or irritation occurs.

### INGESTION:

Ingestion of small quantities is not expected to be of concern. If the person experiences distress, immediately seek medical attention. Provide this SDS to attending medical personnel.

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## 5. FIRE FIGHTING MEASURES

**Flashpoint and Method:** Unknown

**Flammable Limits:** Unknown

**Autoignition Temperature:** Unknown

**GENERAL HAZARD:**

Material is water based and not expected to be a significant fire hazard.

**FIRE FIGHTING INSTRUCTIONS:**

Water fog or fine spray; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol resistant foams (ATC type).

**FIRE FIGHTING EQUIPMENT:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of protective equipment is generally unnecessary.

**FURTHER INFORMATION:**

During a fire, smoke may contain the original material in addition to combustion products which might be more irritating.

**HAZARDOUS COMBUSTION PRODUCTS:**

Carbon dioxide, carbon monoxide, sulfur oxides, aldehydes and miscellaneous organic gases.

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## 6. ACCIDENTAL RELEASE MEASURES

**LAND SPILL RESPONSE:**

Material is a nutrient enhancer and designed to be used in soils. Small spills will dissipate on their own. Larger spills can be diluted through mixing impacted soils with other soils to utilize the value of the soil nutrient enhancement.

**WATER SPILL:**

Material is water based and will mix with the water. Small spill effects are negligible. Large spills may enhance the growth of aquatic plant material.

**RECOMMENDED DISPOSAL:**

The material is not hazardous according to U.S. EPA CFR 40. Dispose of in accordance with local and state regulatory agency requirements.

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## 7. HANDLING AND STORAGE

**STORAGE TEMPERATURE:** Ambient

**STORAGE PRESSURE:** Atmospheric

**GENERAL:**

Store in a dry location at normal room temperature.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)			
	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL
Humic Acid/Humates	None Established	None Established	None Established	None Established
Potassium Hydroxide	None Established	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	None Established

### ENGINEERING CONTROLS:

None required. An eye wash is recommended if routinely using large volumes of the product.

### PERSONAL PROTECTION:

None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Vapor Pressure:</b>	17 mm @ 68 °F	<b>Vapor Density:</b>	0.62 air = 1
<b>Specific Gravity:</b>	1.0156 gm/cc	<b>Evaporation Rate:</b>	0.08
<b>Solubility in Water:</b>	20%	<b>Freezing Point:</b>	Unknown
		<b>Odor:</b>	Pungent
<b>pH:</b>	slightly alkaline	<b>Appearance:</b>	Black liquid
<b>Boiling Point:</b>	>210 F @ 1 atm	<b>Physical State:</b>	Liquid
<b>Kinematic Viscosity:</b>	Unknown	<b>Flammable Range:</b>	NA
<b>Flash Point:</b>	NA		

## 10. STABILITY AND REACTIVITY

### GENERAL:

Stable; Avoid ignition sources, and excess heat.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Do not mix with calcium based fertilizers. Do not mix with oxidizers and will neutralize acids.

### HAZARDOUS DECOMPOSITION:

None

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY TO ANIMALS:

Component	Acute Test	Value	Species
Potassium Hydroxide	LD50 oral	273 mg/kg	rat
Humates	LD50 oral	>10 gm/kg	rat

### ROUTES OF ENTRY:

Skin contact; eye contact through splashing; and oral contact through accidental ingestion; respiratory inhalation is not a significant route unless a mist is created.

### CHRONIC EFFECTS ON HUMANS:

No known chronic effects.

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**Eyes:**

The liquid can irritate eyes if splashed into the eyes and not washed out immediately. Not expected to result in irreversible eye damage unless it is allowed to remain in the eyes.

**Skin:**

May cause skin irritation and redness if not washed off.

**Ingestion:**

Ingesting large quantities may result in gastrointestinal distress.

**Inhalation:**

Not a significant route of exposure unless a mist is created.

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## 12. ECOLOGICAL INFORMATION

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Potassium hydroxide	LC50	80 mg/l 96hr	Western mosquito fish ( <i>Gambusia affinis</i> )

Humates are naturally occurring and are not known to be aquatically toxic.

Kelp is from naturally occurring algae.

**PRODUCTS OF BIODEGRADATION:**

Less toxic than the material, itself.

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## 13. DISPOSAL CONSIDERATIONS

This is not a hazardous waste based on EPA CFR40 unless mixed with something that would render it hazardous.

Dispose of in accordance with local and state regulatory requirements.

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## 14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to transportation regulations.

Mode of Transportation	Domestic Surface (USDOT)	Domestic Air	International Air (IATA)
UN Number	Not Regulated	Not Regulated	Not Regulated
Proper Shipping Name			
Hazard Class			
Packing Group			
Hazard Label			
Handling Label(s)			
ERG#:			
Packaging Instructions:			

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## 15. REGULATORY INFORMATION

### Chemical Inventory Status

Ingredients listed on: TSCA, DSL, Japan, and EC inventories.

SARA Section 302 - Emergency Planning Notification - None

SARA Section 304 - Emergency Release Notification - None None

SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - None

CERCLA - Hazardous Substance - None

RCRA Hazardous Waste Classification - None

### California Proposition 65:

No components listed on Proposition 65 list of known cancer causing agents.

## 16. OTHER INFORMATION

### UNITED STATES NATIONAL FIRE PROTECTION ASSOCIATION (U.S. NFPA)

NFPA Category	Soil Maximizer
Health:	1
Fire:	0
Reactivity:	0

### CREATION/REVISION SUMMARY:

Created on:

28-Apr-16

Cheryl Sykora, CIH, CSP, CHMM

Registered Specialist, SDS and Label Authoring #118534

LEGEND TECHNICAL SERVICES, INC.

88 Empire Drive, Saint Paul, Minnesota 55103

651-221-4085



THE INFORMATION RELATES TO THIS SPECIFIC INFORMATION. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.