

Safety Data Sheet
SumaGrow
SDS Revision Date: 05/22/2018

1. Identification

1.1. Product identifier

Product Identity	SumaGrow
Alternate Names	SumaGrow

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	Bio Soil Enhancers Inc.
1161 James Street	
Hattiesburg, MS 39401	
Emergency	
Customer Service: Bio Soil Enhancers Inc.	601-582-4000

2. Hazard(s) identification

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

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[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight	GHS	Notes
Humic acids, potassium salts CAS Number: 0068514-28-3	12	Not Classified	[1]
Bacillus amyloliquefaciens	(i)	Not Classified	[1] (i)
Bacillus subtilis	(i)	Not Classified	[1] (i)
Bacillus pumilus	(i)	Not Classified	[1] (i)
Bacillus lichenformis	(i)	Not Classified	[1] (i)

(i) In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard. [2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

The microorganisms are classified as either Risk Group 1 or Risk Group 2 by the World Health Organization (WHO).

These microorganisms may cause human infection, may pose a hazard to laboratory personnel, but are unlikely to spread in the community. Exposure to these microorganisms in the laboratory rarely causes infection. Effective prevention and treatment is readily available.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

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Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Dilute the stomach contents by giving large amounts of water or milk.

4.2. Most important symptoms and effects, both acute and delayed

Overview	<p>Swallowing: May cause nausea, headache.</p> <p>Skin Absorption: No evidence of adverse effects from available information.</p> <p>Inhalation: May cause nasal stuffiness, cough, sore throat. Avoid breathing vapors and mist.</p> <p>Skin contact: Staining may occur - wash with soap and water. No harmful effects expected.</p> <p>Eye contact: No harmful effects expected from vapor. If splashed in eyes, rinse immediately with water for 15 minutes.</p> <p>Effects of Repeated (Chronic) Overexposure: No evidence of adverse effects from available information.</p> <p>Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation: None currently known.</p> <p>See section 2 for further details.</p>
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5. Fire-fighting measures

5.1. Extinguishing media

Any media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

None

ERG Guide ----
No.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet.

Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Leak and Spill Procedure: Take steps to control product discharge to the environment. Notify appropriate authorities immediately and arrange for recovery of spilled material.

Waste Disposal: Ensure waste material is disposed of in accordance with applicable environmental regulations, including local requirements

7. Handling and storage

7.2. Conditions for safe storage, including any incompatibilities Handle containers carefully to prevent damage and spillage. Incompatible materials: No data available.

Store in dry place. Keep product containers closed or covered where possible. See section 2 for further details. -
[Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters Exposure

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CAS No.	Ingredient	Source	Value
0068514-28-3 Previously listed	Humic acids, potassium salts Microbes	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0068514-28-3 Previously listed	Humic acids, potassium salts Microbes	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b:

8.2. Exposure controls

Respiratory Not required if using the product outside in the fresh air. If using in an enclosed area, make sure there is good ventilation.

Eyes Goggles recommended.

Skin Wear overalls to keep skin contact to a minimum. Wear loose-fitting gloves.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly

See section 2 for further details. - [Prevention]:

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9. Physical and chemical properties

Appearance	Dark brown / black Liquid
Odor	Odorless
Odor threshold	Not Measured
pH	7.0
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	97 C
Flash Point	Not Applicable
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive	Lower Explosive Limit: Not Measured
Upper Explosive Limit: Not Measured	
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.04
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Coefficient of Oil/Water Distribution	Not applicable

9.2. Other information

No other relevant information.

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10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Humic acids, potassium salts - (68514-28-3) Microbes, various CAS# (listed previously in ingredients)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Categor	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable

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Respiratory sensitization	---	Not Applicable
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Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	LC50 fish, mg/l	50 crustacea, mg/l	50 algae, mg/l
Humic acids, potassium salts - (68514-28-3)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

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14. Transport information

	DOT (Domestic Surface)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not	Air Class: Not Applicable
14.4. Packing	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user			
No further information			

15. Regulatory information

Regulatory Overview
Toxic Substance Control Act (TSCA)

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification

Not Regulated

US EPA Tier II Hazards Fire: No

Sudden Release of Pressure: No

Reactive: No Immediate (Acute): No Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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OSHA Hazards: Irritant

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Massachusetts RTK Substances (>1%)

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute health hazard.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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