

# Material Safety Data Sheet

## I. PRODUCT IDENTIFICATION

**TRADE NAME:** Bio-Genesis™ Mineral Matrix  
**TELEPHONE NO.:** (800) 669-2113  
**MANUFACTURER'S NAME:** Green Air Products, Inc.  
**ADDRESS:** PO Box 1318  
Boring, OR 97030

**COMPOSITION:** Potassium-Magnesium Sulfate, Sodium Borate, Copper Sulfate, Ferrous Sulfate, Manganese Sulfate, Sodium Molybdate, Zinc Sulfate, Citric Acid as the chelating agent.

## II. HAZARDOUS INGREDIENTS

<u>MATERIAL</u>	<u>%</u>	<u>EXPOSURE LIMITS IN AIR</u>				<u>SARA 313</u>	<u>CERCLA RQ</u>
		<u>CAS</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>			
Copper sulfate (as Cu)	0.05%	7758-98-7	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>	Yes	10 lbs.	
Ferrous sulfate (as Fe)	2.00%	7782-63-0	none	1.0 mg/m <sup>3</sup>	No	1000 lbs.	
Manganese Sulfate (as Mn)	2.00%	7785-87-7	none	5 mg/m <sup>3</sup>	No	none	
Sodium molybdate (as Mo)	0.0005%	7439-98-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Yes	none	
Zinc sulfate (as Zn)	3.00%	7733-02-0	none	none	No	1000 lbs.	

## III. PHYSICAL DATA

<b>BOILING POINT, 760 MM HG:</b>	100°C	<b>MELTING POINT:</b>	n/a
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	1.30 ± 0.03	<b>VAPOR PRESSURE:</b>	Not known
<b>VAPOR DENSITY (AIR=1):</b>	Not known	<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Approx. 95% By Wt.
<b>pH:</b>	2.19 ± 0.2	<b>EVAPORATION RATE (BUTYLACETATE=1):</b>	n/a
<b>% VOLATILES BY VOL:</b>	Not known	<b>APPEARANCE AND ODOR:</b>	Brown, viscous liquid with pleasant odor

## IV. FIRE AND EXPLOSION DATA

<b>FLASH POINT:</b>	n/a	<b>AUTOIGNITION TEMPERATURE:</b>	n/a
<b>TEST METHOD:</b>	n/a	<b>FLAMMABLE LIMITS IN AIR, % BY VOL</b>	
<b>EXTINGUISHING MEDIA:</b>	n/a	<b>LOWER:</b>	n/a
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	n/a	<b>UPPER:</b>	n/a
		<b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b>	n/a

## V. HEALTH HAZARD INFORMATION

### SYMPTOMS OF OVEREXPOSURE

**INHALATION:** None expected.

**SKIN ABSORPTION:** None expected.

**INGESTION:** None expected.

**SKIN CONTACT:** None expected.

**EYE CONTACT:** May cause slight irritation.

### EFFECTS OF OVEREXPOSURE

**ACUTE OVEREXPOSURE:** Expected toxicity hazard is slight to none.

**CHRONIC OVEREXPOSURE:** Expected toxicity hazard is none.

### EMERGENCY AND FIRST AID PROCEDURES

**EYES:** Flush with water.

**INHALATION:** No treatment necessary.

**SKIN:** Wash with water.

**INGESTION:** Dilute with water and milk of magnesia. Contact a physician.

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V. HEALTH HAZARD INFORMATION cont.

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**SUSPECTED CANCER AGENT**

NO: This product's ingredients are found in the lists checked below.  
 YES:  Federal OSHA  NTP  IARC  Cal/OSHA

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

**NOTES TO PHYSICIAN:** Ingestion of product may result in iron toxicity. Treat symptoms as indicated.

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VI. REACTIVITY DATA

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**STABILITY:**  stable  unstable

**INCOMPATIBILITY (materials to avoid):** n/a

**HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:** n/a

**HAZARDOUS POLYMERIZATION:** n/a

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VII. SPILL, LEAK AND DISPOSAL PROCEDURES

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Wash with water.

**NEUTRALIZING CHEMICALS:** n/a

**WASTE DISPOSAL METHOD:** Follow all applicable Federal, State and local regulations.

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VIII. SPECIAL PROTECTION INFORMATION

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**VENTILATION REQUIREMENTS:** None

**SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**

**EYES:** Wear safety glasses or goggles

**GLOVES:** Not required.

**RESPIRATORY:** Not required.

**OTHER EQUIPMENT:** Not required.

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IX. SPECIAL PRECAUTIONS

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**PRECAUTIONARY STATEMENTS:** Do not ingest. Do not get in eyes.

**OTHER HANDLING AND STORAGE REQUIREMENTS:** Keep lid tightly closed. Store in a dry area, above freezing and below 105°F, and out of direct sunlight. Keep out of reach of children.

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**PREPARED BY:** Green Air Products

**REV. DATE:** 20 May 2004

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All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.