

MATERIAL SAFETY DATA SHEET

St Gabriel Organics
14044 Litchfield Drive
Orange, Virginia

SECTION I: MATERIAL IDENTIFICATION AND USE

Material Name: MilkySpore Powder, EPA Registration #63191-1
Manufacturer's Name: St Gabriel Organics
Street Address: 14044 Litchfield Drive
CITY: Orange STATE: Virginia ZIP: 22960
Emergency Telephone No.: (800) 801-0061

Chemical Formula: SiO₂ plus Spores of Bacillus popilliae
Chemical Name: SiO₂ = Diatomaceous Earth, Natural
Chemical Family: Amorphous Silica

SECTION II: HAZARDOUS INGREDIENTS OF MATERIAL

<u>Mineral or Chemical Name(s)</u>	<u>OSHA PEL (ACGIH TLV)</u>	<u>Other Limits</u>
Diatomaceous Earth, Natural > 80% CAS# 61790-53-2	10 mg/m ³ total dust for products Containing < 1% quartz	Not available
Crystalline Silica (Quartz) < 1% CAS# 14808-60-7	See above	Not available

HMIS (Hazardous Materials Identification System Ratings – NPCA/CPCA)

Based on hazard rating of 4 = Most severe

Health Refer to Section V

Flammability 0

Reactivity 0

Personal Protection E Use approved dust mask; goggles to prevent eye irritation

SECTION III: PROPERTIES

Physical State:	Solid	Melting Point:	Not Determined
Boiling Point:	N/A	Vapor Density:	N/A
Vapor Pressure:	N/A	Evaporation Rate:	N/A
Specific Gravity:	2.2		
Solubility in Water:	< 2%		
Appearance & Odor:	Fine, slightly off-white powder. No odor.		

SECTION IV: FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability:	Not Flammable
Flash Point:	N/A
Means of Extinction:	N/A
Special Procedures:	N/A
Flammable Limits:	N/A

SECTION V: HEALTH HAZARDS

SUMMARY: Natural diatomaceous earth (Kieselguhr) contains small quantities (typically <1%) of crystalline silica which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-Aramid Fibrils"), the International Agency of Research on Cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans." In making the overall evaluation, the IARC Working Group noted that "There is inadequate evidence in experimental animals for the carcinogenicity of uncalcined diatomaceous earth". It further noted that "There is inadequate evidence in humans for the carcinogenicity of amorphous silica" and therefore it was rated as "not classifiable as to its carcinogenicity to humans (Group 3)". Natural diatomaceous earth is predominantly amorphous silica.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing diseases of the upper respiratory tract and lung such as bronchitis, emphysema, and asthma

SECTION V: HEALTH HAZARDS CONT'D

Route of Entry: Inhalation (Chronic), **TARGET ORGANS:** Lungs

Effects of Acute Exposure to Product: Upper respiratory irritant – May cause coughing or throat irritation.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

Inhalation of dust in excess of the Threshold Limit Value (TLV) recommended by the American Conference of Governmental Industrial Hygienists (ACGIH) over an extended number of years may cause pneumoconiosis. Pneumoconiosis is a disabling lung disease which may be progressive and, on rare occasions, may ultimately be fatal.

IARC - "There is inadequate evidence in experimental animals for the carcinogenicity of uncalcined diatomaceous earth". This product contains small quantities (<1%) of crystalline silica, which in inhaled forms from occupational sources was rated in Group 1, carcinogenic to humans.

NTP - "Silica, crystalline (respirable)" – "known to be a human carcinogen"

OSHA - Has not classified crystalline silica as a carcinogen

MSHA PEL: 5 mg/m3 NIOSH REL: 6 mg/m3

SECTION VI: REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBILITY TO OTHER SUBSTANCES YES: Hydrofluoric Acid

Products containing Silica may react violently with Hydrofluoric Acid

REACTIVITY AND UNDER WHAT CONDITIONS: Not Applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

PERSONAL PROTECTIVE EQUIPMENT:

Respirators such as N95 should be worn when dust is present.

GLOVES: Not normally necessary

RESPIRATORY: Note Above

EYE: Goggles to protect from dust

FOOTWEAR: Not necessary

CLOTHING: Not normally necessary

Waste Disposal Method

If Empty: Do not reuse container. Place in trash or offer for recycling if available.

If Partially Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Handling Procedures: Avoid creating dust.

Storage Requirements: Store in a dry place to maintain product quality.

Special Shipping Instructions: None

SECTION VIII: FIRST AID MEASURES

Skin: Not absorbed by the skin. May cause dryness. Use moisture renewing lotions if dryness occurs.

Eye: May cause irritation or inflammation. Wash with generous quantities of water. Consult physician if irritation persists.

Inhalation: Acute inhalation can cause dryness of the nasal passages and congestion of the upper respiratory tract. Remove to fresh air.

Ingestion: Short-term exposure not considered harmful. Drink generous amounts of water to reduce bulk and drying effects.

SECTION IX: PREPARATION DATE OF MSDS

Prepared by: Richard A. Vento

Title: Director of Laboratory Operations

Date: January 4, 2008

Revision date: March 10, 2011

Revised by: Benjamin Welborn

The above information is believed to be correct, but does not purport to be all inclusive. This data should be used only as a guide in handling this material. St. Gabriel Organics shall not be held liable for any damage resulting from handling or from direct contact with this product.