

# MATERIAL SAFETY DATA SHEET

**ENVIROFILL**

Last Updated May 7, 2011



## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **Envirofill**

Product Use: Infill for synthetic / artificial turf

Company Identification: **USGreentech, LLC**  
3607 Church Street  
Cincinnati, OH 45244  
(800) 548-0402 For Product Information  
(800) 548-0402 For Emergencies

## **2. COMPOSITION / INFORMATION ON INGREDIENTS**

### **CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS**

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> | <u>OSHA PEL (TWA)</u> | <u>ACGIH TWA</u>    |
|----------------------|---------------|-------------------|-----------------------|---------------------|
| Silicon Dioxide      | >98%          | 14808-60-7        | 100 ppm               | 50 ppm              |
| Acrylic Polymers     | <2%           | Proprietary       | Not Listed            | Not Listed          |
| Calcium Carbonate    | <0.2%         | 471-34-1          | 5 mg/m <sup>3</sup>   | 3 mg/m <sup>3</sup> |
| Microban             | <0.2%         | Proprietary       | Not Listed            | Not Listed          |

**COMPOSITION NOTE:** This product consists of silicon dioxide coated with an acrylic polymer. Although Envirofill® is composed primarily of Silica Sand (SiO<sub>2</sub>), and such sand is potentially a source of respirable dust, the sand particles in Envirofill® are thoroughly encapsulated in a coating which captures all dust and ingredients. Under normal circumstances, this prevents any normal release of silica dust to the workplace. An independent study was conducted by Duke University School of Medicine on this product and determined that this product does not contain hazardous substances when evaluated under ASTM F963.8.2. Further this product should be classified as NOT being toxic, corrosive, skin/eye irritants, or a strong sensitizer as defined in 16 CFR 1500.3(b)(5), and 1500.3(b)(7) – (9) of the Federal Hazardous Substances Act.

**HAZARDS DISCLOSURE:** This product does not contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 except as listed above. As defined under Sara 311 and 312, this product does not contain known hazardous materials.

## **3. HAZARDS IDENTIFICATION**

### **EMERGENCY OVERVIEW**

This product may cause mechanical irritation to eyes and/or skin.

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## **POTENTIAL HEALTH EFFECTS**

**ROUTES OF ENTRY:** Eyes, Inhalation, Ingestion.

**INHALATION:** Not expected to be an inhalation hazard when used as intended.

**INGESTION:** Ingestion of this product may cause gastrointestinal irritation.

**SKIN CONTACT:** Contact with skin may cause mechanical irritation.

**EYE CONTACT:** Contact with eyes will cause mechanical irritation.

**CHRONIC EXPOSURE:** None known

## **4. FIRST AID MEASURES**

**INHALATION FIRST AID:** This product is not expected to generate dust under normal conditions. If an individual has breathing difficulties remove individual to fresh air. If individual stops breathing, use artificial respiration to support vital functions. Seek medical attention immediately.

**SKIN CONTACT FIRST AID** This product may produce a mechanical irritation. It is not expected to require medical attention.

**EYE CONTACT FIRST AID:** If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

**INGESTION FIRST AID:** Routine use of this product is not expected to cause any situation which could lead to ingestion.

**NOTE TO PHYSICIANS:** Treat symptoms

## **5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:** Non-Flammable

**AUTO IGNITION TEMPERATURE:** Not Applicable

**FLASH POINT:** NA.

**FLAMMABLE LIMITS IN AIR, % by Volume:** lel: NA; uel: NA

**EXTINGUISHING MEDIA:** Use fire extinguishing materials appropriate for surrounding fire.

**FIRE & EXPLOSION HAZARDS:** None

## **6. ACCIDENTAL RELEASE MEASURES**

**SPILL CLEAN-UP PROCEDURES:** Vacuum or sweep up material and place all spilled residue in a suitable container. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations.

## **7. HANDLING AND STORAGE**

**STORAGE CONDITIONS:** Store containers in a cool, dry location, and away from direct sunlight.

**HANDLING:** Avoid breakage of bagged material or spills of bulk material. Material does not have a shelf life. Stack bagged material so that it does not have the opportunity to fall. This material is not hazardous under normal storage conditions.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**AIRBORNE EXPOSURE LIMITS:** See Section 2 for component airborne exposure levels..

**VENTILATION SYSTEM:** Not required when using this product.

**PERSONAL RESPIRATORS (NIOSH APPROVED):** Not required when using this product.

**RESPIRATORY PROTECTION:** Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

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**SKIN PROTECTION:** Not required in normal applications.  
**EYE PROTECTION:** Use safety glasses to prevent contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**FORM:** Solid  
**ODOR:** Odorless  
**SOLUBILITY IN WATER:** Negligible  
**MELTING POINT:** 1710°C  
**AUTO IGNITION TEMPERATURE:** NA  
**pH:** NA

**COLOR:** Various  
**BOILING POINT:** 2230°C  
**SPECIFIC GRAVITY:** 2.9 – 3.1  
**EVAPORATION RATE (BuAc=1):** NA  
**FLASH POINT:** NA  
**BULK DENSITY:** ~110 lbs/ft<sup>3</sup>

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under ordinary conditions of use and storage.  
**CONDITIONS TO AVOID:** Extreme temperatures above 870°C  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**INCOMPATIBILITY WITH OTHER MATERIALS:** None  
**HAZARDOUS DECOMPOSITION:** None

## 11. TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA:

There is no Data available for this finished product.

**SUSPECTED CANCER AGENT:** A component of this product is found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA but because the product is encapsulated in a polymer coating and having a larger particle size it should therefore not be considered to be, or suspected to be a carcinogenic agent by these agencies.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

No Data

### ENVIRONMENTAL TOXICITY:

There is no data that suggests that this product is toxic to birds, fish, invertebrates, microorganisms or plants.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

Recover, reclaim or recycle when practical.

Dispose of material in accordance with federal, state and local requirements.

## 14. TRANSPORTATION INFORMATION

DOMESTIC (LAND, D.O.T.), INTERNATIONAL (WATER, I.M.O.), INTERNATIONAL (AIR, I.C.A.O.)  
NON-REGULATED MATERIAL

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## **15. REGULATORY INFORMATION**

### **FEDERAL REGULATORY STATUS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act, and are listed as follows:

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory.

## **16. OTHER INFORMATION**

Prepared By: Paul Eigbrett (MSDS Authoring PLUS)

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

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END OF MSDS