

Health	Flammability
1	0
Hazard	Reactivity
1	0

BIOFLOCTM

MATERIAL SAFETY DATA SHEET

				IDENTIFICATION SYSTEM		
	I. 1	PRODUCT IDE	NTIFICAT	TON		
Trade Name: BIC	OFLOC™					
Generic Name(s):	Bacillus, Montmorillonite and other	r proprietary ingre	edients.			
Manufacturer:	turer: Innovative Turf Solutions 3318 Glenmont Lane Cincinnati, OH 45248		Telepho	Telephone Numbers: 513 317 8311		
II. HAZARDOUS INGREDIENTS						
Ingredient		CAS No.	%	Hazard		
Crystalline Silica (S	SiO ₂) as Quartz	14808-06-7	1-5%	Low concentrations of crystalline silica (SiO ₂) in the form of quartz may be present in airborne Montmorillonite dust. The concentration level of total free silica in airborne Montmorillonite dust is variable depending upon origin of Montmorillonite, fineness of product, moisture content of product, local humidity and wind conditions, etc. (See Section VI).		
	Note: Specific identity of product ingredients withheld as a trade secret. Ingredient identity is available to health professionals and others in accordance with 29 CRF 1910.1200(i). Only the most restrictive data for the ingredients in this product are given here.					
		III. PHYSIC	AL DATA			
Boiling Point (°F): NA			Specific	Specific Gravity (H ₂ O=1): 2.40-2.50		
Vapor Pressure (mm. Hg): NA		Melting	Melting Point: Approx. 1450°C			
Vapor Density (Air = 1): NA			Evapor	Evaporation Rate (Butyl Acetate = 1): NA		
Solubility in Water	: Slightly soluble, forms flocculated	l suspension.				
Density (at 20° C): 89.3 lbs./cu.ft. as dry product.						
Appearance and O	dor: Blue gray to gray green as mo	ist solid, light tan	to gray as d	ry powder. No odor.		
IV. FIRE AND EXPLOSION DATA						
Flash Point: NA Flammable Limits: I				able Limits: LEL: NA UEL: NA		
Special Fire Fightin	ng Procedures: NA					
Unusual Fire and Explosion Hazards: Product will not support combustion.						
Extinguishing Media: None for product. Any media can be used for the packaging. Product becomes slippery when wet.						
V. REACTIVITY						
Stability: Stable						
Hazardous Polymerization: None						
Incompatibility: none						
Hazardous Decom are corrosive oxidi		s of Sulfur Oxide	gases may f	form when product temperature exceeds 760°C. These gases		

NA = Not Applicable ND = Not Determined Date Prepared : January 24, 2011

VI. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: Prolonged contact may cause irritation and drying resulting in dermatitis.

Eyes: May irritate or burn eyes.

Inhalation: Acute (short term) exposure to dust levels exceeding the

PEL/TLV's may cause irritation of respiratory tract resulting in a dry cough.

Chronic (long term) exposure to free silica containing airborne Montmorillonite dust where levels are

higher than PEL/TLV's may lead to development of silicosis or other respiratory problems.

Persistent dry cough and labored breathing upon exertion are symptomatic.

Ingestion: May irritate gastrointestinal tract.

Permissible Exposure Limits: OSHA PEL ACGIH TLV

(for air contaminants) (8hr. TWA)

 $\begin{array}{ccc} Total \ dust & ND & ND \\ Respirable \ dust & 2mg/m^3 & 2\ mg/m^3 \\ Crystalline \ Quartz \ (respirable) & 10mg/m^3 & 0.025mg/m^3 \\ \end{array}$

Carcinogenicity: None of the ingredients are listed by NTP, IARC or OSHA. IARC, 1987, concludes that there is limited evidence suggesting the Carcinogenicity in humans of inhaled crystalline silica (IARC Class 2A)

Toxicity to Fish:LC50/96 hours>13,000 mg/l

Toxicity to daphnia:EC50/48 hours>17,000 mg/l

Toxicology to algae-Not determined

Emergency and First Aid Procedures:

Skin: Wash with soap and water until clean.

Eyes: Flush with water until irritation ceases. If irritation persists contact physician.

Inhalation: Move to area free from dust. If symptoms of irritation persist contact physician.

Inhalation may aggravate existing respiratory illness.

VII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Avoid breathing dust; wear respirator approved for silica bearing dust. Vacuum up to avoid generating airborne dust. Avoid using water. Product slippery when wetted.

Waste Disposal Methods: Product should be disposed of in accordance with applicable local, state and federal regulations.

Handling and Storage Precautions: Use NIOSH/MSHA respirators approved for silica bearing dust when free silica containing airborne Montmorillonite dust levels exceed PEL/TLV's. Clean up spills promptly to avoid making dust. Storage area floors may become slippery if wetted.

VIII. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Mechanical, general room ventilation. Use local ventilation to maintain PEL's/TLV's.

Respirator: Use respirators approved by NIOSH/MSHA for silica bearing dust.

Eye Protection: Chemical safety goggles. Use of contact lenses not recommended.

Gloves: As appropriate for industrial work.

Other Protective Clothing or Equipment: As appropriate for industrial work.

IX. SPECIAL PRECAUTIONS

Avoid inhalation of airborne dust.

DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Common Ground Clay (NOIBN) Hazard Class: Not Hazardous

Hazardous Substance: None

Cautionary Labeling: None required Date Prepared: September 12, 2011

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by Innovative Turf Solutions as to this information, or as to the safety, toxicity or effect of the use of this product.