Innovative Turf Solutions, LLC

MATERIAL SAFETY DATA SHEET

Health Flammability

1 0

Hazard Reactivity
1 0

NFPA FIRE HAZARD

IDENTIFICATION SYSTEM

I. P	PRODUCT IDE	NTIFICATI	IDENTIFICATION SYSTEM ON	
Trade Name(s): Floc Socs (other names include num				
Generic Name(s): Mixture of Montmorillonite and oth	er proprietary ing	gredients.		
Chemical Name(s): Sodium Montmorillonite and other	proprietary ingre	edients		
Manufacturer: Innovative Turf Solutions, LLC Address: 3318 Glenmont Lane Cincinnati, OH 45248		Infor	Telephone Numbers: Information: (513) 317-8311 EMERGENCY: Contact local health agency	
п. 1	HAZARDOUS :	INGREDIE	NTS	
Ingredient	CAS No.	%	Hazard	
Crystalline Silica (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 withhe accordance with 29 CRF 1910.1200(i). Only			nt identity is available to health professionals and others in the ingredients in this product are given here.	
	III. PHYSIC	AL DATA		
Boiling Point (°F): NA		Specific	Specific Gravity (H ₂ O=1): 2.65	
Vapor Pressure (mm. Hg): NA		Melting l	Melting Point: Approx. 1450°C	
Vapor Density (Air = 1): NA		Evaporat	Evaporation Rate (Butyl Acetate = 1): NA	
Solubility in Water: Slightly soluble, forms flocculated	suspension.			
Bulk Density (at 20° C): 89.3 lbs./cu.ft. as dry product.				
Appearance and Odor: Blue gray to gray green as moist solid, light tan to gray as dry powder. No odor.				
IV. I	FIRE AND EXI	PLOSION D	ATA	
Flash Point: NA		Flammab	Flammable Limits: LEL: NA UEL: NA	
Special Fire Fighting Procedures: NA				
Unusual Fire and Explosion Hazards: Product will not	support combus	tion.		
Extinguishing Media: None for product. Any media ca	n be used for the	packaging. P	Product becomes slippery when wet.	
	V. REAC	TIVITY		
Stability: Stable				
Hazardous Polymerization: None				
Incompatibility: Hydrofluoric Acid				
Hazardous Decomposition Products: Limited amounts are corrosive oxidizers and are toxic.	of Sulfur Oxide	gases may fo	rm when product temperature exceeds 760°C. These gases	
NA = Not Applicable $ND = Not Determined$		Date Pre	epared : April 27, 2012	

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, wear safety goggles.

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

Toxicity to Oncorhynchus mykiss:EC50/96 hours>10,000 mg/l

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: April 27, 2012

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, LLC as to this information, or as to the safety, toxicity or effect of the use of this product.