Floc Systems Inc.

MATERIAL SAFETY DATA SHEET

Health Flammability

1 0

Hazard Reactivity
1 0

NFPA FIRE HAZARD

IDENTIFICATION SYSTEM

			IDENTIFICATION SYSTEM	
I.	PRODUCT IDE	NTIFICAT	ION	
Trade Name(s): Tigerfloc (other names include n	number sequences	.)		
Generic Name(s): Mixture of Montmorillonite and	other proprietary i	ngredients.		
Chemical Name(s): Sodium Montmorillonite and ot	her proprietary ing	gredients		
Manufacturer: N/A Address:		Info	Telephone Numbers: Information: (778) 230-4174 EMERGENCY: Contact local health agency	
п.	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).	
			lient identity is available to health professionals and others for the ingredients in this product are given here.	
	III. PHYSIC	AL DATA		
Boiling Point (°F): NA		Specific	Specific Gravity (H ₂ O=1): 2.65	
Vapor Pressure (mm. Hg): NA		Melting	Melting Point: Approx. 1450°C	
Vapor Density (Air = 1): NA		Evapora	Evaporation Rate (Butyl Acetate = 1): NA	
Solubility in Water: Slightly soluble, forms floccular	ted suspension.			
Bulk Density (at 20° C): 89.3 lbs./cu.ft. as dry product.				
Appearance and Odor: Blue gray to gray green as n	noist solid, light ta	n to gray as	dry powder. No odor.	
IV.	FIRE AND EXI	PLOSION I	DATA	
Flash Point: NA		Flamma	Flammable Limits: LEL: NA UEL: NA	
Special Fire Fighting Procedures: NA				
Unusual Fire and Explosion Hazards: Product will a	not support combu	istion.		
Extinguishing Media: None for product. Any media	can be used for the	ne packaging	g. Product becomes slippery when wet.	
	V. REAC	TIVITY		
Stability: Stable				
Hazardous Polymerization: None				
Incompatibility: Hydrofluoric Acid				
Hazardous Decomposition Products: Limited amou gases are corrosive oxidizers and are toxic.	nts of Sulfur Oxid	e gases may	form when product temperature exceeds 760°C. These	
NA = Not Applicable ND = Not Determined		Date Pr	Date Prepared : 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: Pimephales Promelas 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 Floc Systems Inc. as to this information, or as to the safety, toxicity or effect of the use of this product.