

# SAFETY DATA SHEET (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Identifier</b> TerraFill® Deep Series (Bentonite)		<b>Grade</b> M200 BENT	
<b>Product Use</b>			
<b>Manufacturer's Name</b> ALLTEC LLC			
<b>Street Address</b> 64 Catalyst Drive			
<b>City</b> Canton		<b>State</b> North Carolina	
<b>Zip Code</b> 28716		<b>Emergency Telephone</b> 828-646-9290	
<b>Date SDS Prepared</b> 4/25/2017		<b>SDS Prepared By</b> ALLTEC LLC	

## SECTION 2 — HAZARD INGREDIENTS / IDENTITY INFORMATION

Hazardous Components	CAS Number	OSHA PEL	ACGIH TLV	% (optional)
Bentonite	1302-78-9		Recommended TLV Respirable dust = (10/(% respirable quartz +2)) mg/m <sup>3</sup> . Total dust = (30/(%quartz + 3)) mg/m <sup>3</sup>	
Silica	14808-60-7	NIOSH REL= 0.05mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	2-6

## SECTION 3 — PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: NA		Specific Gravity (H <sub>2</sub> O = 1) 2	
Vapor Pressure (mm Hg)	NA	Melting Point	Above 1000 C
Solubility in Water	Negligible	Appearance and Odor	Black powder or grain. No odor or slight sulfurous odor.
pH	NA		

## SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

<b>Extinguishing Media</b>	Use water, foam, sand, or dry chemical
<b>Special Fire Fighting Procedures</b>	Not combustible
<b>Unusual Fire and Explosion Hazards</b>	None

## SECTION 5 — REACTIVITY DATA

<b>Stability</b>	Stable
<b>Conditions to Avoid</b>	None
<b>Incompatibility (Materials to Avoid)</b>	None
<b>Hazardous Decomposition or Byproducts</b>	None
<b>Hazardous Polymerization</b>	Will not occur

## SECTION 6 — HEALTH HAZARD DATA

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> Yes	<b>Skin?</b> No	<b>Ingestion?</b> Yes	
<b>Carcinogenicity:</b> Monograph Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC Classification Group 1	Silica	<b>NTP?</b> No	<b>IARC Monographs?</b> Yes	<b>OSHA Regulated?</b> No
<b>Health Hazards</b> (Acute and Chronic)	<b>Eye Contact:</b> Contact with eyes may cause severe mechanical irritation. <b>Ingestion:</b> Although not soluble and orally non-toxic, ingestion of large quantities of bentonite can result in gastrointestinal irritation and blockage. <b>Inhalation:</b> Shortness of breath may occur. Prolonged exposure may result in pulmonary fibrosis, emphysema, and corpulmonale. Inhalation of silica may result in silicosis. <b>Skin Contact:</b> Mechanical irritation may result.			

**Product Identifier**  
**TerraFill® Deep Series (Bentonite)**

<b>Signs and Symptoms of Exposure</b>	<b>Eye contact:</b> Redness, irritation. <b>Inhalation:</b> Shortness of breath, nose and or throat irritation. Sputum may be stained with bentonite powder. Mucus emanating from nasal passages may be stained with bentonite powder. Skin directly adjacent to nose and mouth may be stained with bentonite powder. <b>Skin Contact:</b> Irritation and redness.
<b>Medical Conditions Generally Aggravated by Exposure</b>	Emphysema, asthma and other respiratory problems aggravated by suspended particulates.
<b>Emergency and First Aid Procedures</b>	<b>Eye Contact:</b> Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention. <b>Skin Contact:</b> Wash with mild soap, and water. <b>Inhalation:</b> Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention.

**SECTION 7 — PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>Steps to Be Taken in Case Material is Released or Spilled</b>	Sweep or vacuum. Try to minimize dusting.
<b>Waste Disposal Method</b>	Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
<b>Precautions to Be Taken in Handling and Storing</b>	Handle and transfer in a manner that minimizes dust. Store away from oxidizing agents.
<b>Other Precautions</b>	Bentonite will absorb water and become sticky and slick. Bentonite on walking surfaces may become very slippery when wet.

**SECTION 8 — CONTROL MEASURES**

<b>Respiratory Protection (Specify Type)</b>	Avoid prolonged or repeated breathing of bentonite dust. If exposure may or does exceed occupational exposure limits use a NIOSH-approved respirator to prevent overexposure.
<b>Ventilation:</b>	Use ventilation as required to maintain dust concentrations below TLV.
<b>Eye Protection</b>	Safety glasses or goggles.
<b>Gloves and Other Protective Clothing</b>	Wear gloves and protective clothing to reduce skin contact.
<b>Work/Hygienic Practices</b>	Keep work area clean. Use adequate dust collection and ventilation to maintain dust levels below the ACGIH-TLV.

**SECTION 9 — ECOLOGICAL INFORMATION**

<b>Assessment</b>	Bentonite clay is inert and insoluble and is not expected to present any environmental hazard.
<b>Persistence and degradability:</b>	Bentonite clay will not degrade further under normal conditions. This form of water absorbing mineral clay is stable and insoluble under ambient conditions.
<b>Bioaccumulation:</b>	There is no evidence indicating that bentonite clay is bio-accumulative.
<b>Aquatic Toxicity:</b>	Data not available.
<b>Soil Mobility:</b>	Not determined, however bentonite clay is not expected to have mobility in soil as it is an insoluble, inorganic substance.

**SECTION 10 — DISPOSAL CONSIDERATIONS**

**Disposal:** All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE ALLTEC LLC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: reclaimer, landfill, or waste water treatment system.

HMIS	
<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>E</b>

