

SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: PAR4 Greensand (Glaucanite)
DISTRIBUTOR: Bridgewell Agribusiness LLC
 12420 SE Carpenter Drive
 Clackamas, OR 97015
 (503) 723-5410
PRODUCT USE: Filter medium for water natural absorbent, soil amendment

II. HAZARD(S) IDENTIFICATION

INHALATION: Normal irritation due to dust.
SKIN CONTACT: No effect
EYE CONTACT: Causes mild irritation as any small particulate.
EXPOSURE LIMITS: None established. Use nuisance dust levels as a guideline.

III. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL COMPOSITION	CONTENT %	MINERAL COMPOSITION	
SiO ₂	77.60	Glaucanite	37 ±6
TiO ₂	0.57	Quartz	46±6
Al ₂ O ₃	7.67	Mica (muscovite)	4 ±1
Fe ₂ O ₃	5.90	Feldspar	8 ±2
MnO	0.02	Zeolite	4 ±1
CaO	0.90	Chlorite	1 ±0.5
MgO	1.24		
Na ₂ O	0.39		
K ₂ O	2.48		
P ₂ O ₅	0.17		
S ₂ O ₃	< 0.05		
pH water extraction	8.34		
EXCHANGE CATIONS			
Ca	10.48 mg-equ		
Mg	6.58 mg-equ		
Na	2.61 mg-equ		
K	1.28 mg-equ		
Total Amount	20.95 mg-equ		

IV. FIRST-AID MEASURES

INHALATION: Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
EYE CONTACT: Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
INGESTION: No effect

V. FIRE-FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY: Non-flammable

MEANS OF EXTINCTION:	Product does not burn
FLASH POINT:	NA
AUTO-IGNITION TEMPERATURE:	NA
UPPER FLAMMABLE LIMIT:	NA
LOWER FLAMMABLE LIMIT:	NA
HAZARDOUS COMBUSTIBLE PRODUCTS:	None known
SPECIAL FIRE FIGHTING PROCEDURE:	None
EXPLOSION HAZARDS:	Non-explosive

VI. ACCIDENTAL RELEASE MEASURES

LEAK 1 SPILL:	Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Sweep up and place in a container for disposal.
DEACTIVATING MATERIALS:	None

VII. HANDLING AND STORAGE

HANDLING:	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
STORAGE:	Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYES:	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
RESPIRATORY:	Wear a dust mask when exposed to the dust.
GLOVES:	Impervious gloves of chemically resistant material (rubber or PVC) should be worn. Wash contaminated clothing and dry thoroughly before reuse.
CLOTHING:	Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.
FOOTWEAR:	No special ventilation to control dust.
VENTILATION REQUIREMENTS:	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.
OTHER:	Use general ventilation to control dust

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid, powder. Odorless green sand
VAPOR PRESSURE:	Not applicable

ODOR THRESHOLD: Not applicable
VAPOR DENSITY: Not applicable
pH: 8.34
BULK DENSITY: 1100 kg/m³
MELTING POINT: Not available
FREEZING POINT: Not available
SOLUBILITY(IES): Insoluble
INITIAL BOILING POINT: Not available
EVAPORATION RATE: Not available
PARTITION COEFFICIENT: Not available
SPECIFIC GRAVITY: 2.4
VOLATILES BY VOLUME: 0

X. STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: None incompatible
HAZARDOUS
DECOMPOSITION: None
POLYMERIZATION: Will not occur

XI. TOXICOLOGICAL INFORMATION

IRRITANCY: None
SENSITIZATION: Not Available
CHRONIC / ACUTE
EFFECTS: Inhalation produces the same effect as normal over-exposure to dust.
SYNERGISTIC
MATERIALS: Not available
ANIMAL TOXICITY: Not available
CARCINOGENICITY: Not considered to be carcinogenic (IARC and ACGIH).
REPRODUCTIVE
TOXICITY: Not available
TERATOGENICITY: Not available
MUTAGENICITY: Not available

XII. ECOLOGICAL INFORMATION

FISH TOXICITY: Not available
BIODEGRADABILITY: Not available
ENVIRONMENTAL
EFFECTS: Not available

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose in accordance with all federal, provincial, and/or local regulations including the Russian Environmental Protection Act.

XIV. TRANSPORT INFORMATION

CLASS: Not regulated
GROUP: Not regulated
PIN NUMBER: Not regulated
OTHER: Secure containers (full and/or empty) with suitable hold down devices during shipment.

XV. REGULATORY INFORMATION

WHMIS
CLASSIFICATION: Not a controlled product

XVI. OTHER INFORMATION

Date created: 6/3/16

IMPORTANT:

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