



Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): PermaMatrix® BSP Grow (Biotic Soil Particle)

Product Identifiers: Mycelium Fungal Biomass, Fish Bone Meal, Mineralized Basalt, Reed Sedge Organics,

Biochar, Mycorrhizae, Microbes

Manufacturer: Information Telephone Number:

PermaMatrix Inc. 503-241-7333 (8am to 5pm PST)
PO Box 1210 Emergency Telephone Number:

Fairview OR 97024 503-313-2795

Product Use: Products are used for Soil Amending and Nutrient Enhancement. Grow is a Carbon

Fertilizer.

Note: This MSDS covers many types of soil and media. Individual composition of hazardous

constituents will vary between soil types and different media.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	рН	CAS Number	OSHA PEL-TWA (mg/m;)	ACGIH TLV-TWA (mg/m;)	LD50	LC50
Mycelium Biomass	3.0 - 5.0	NA	NA	NA	NA	NA
Basalt Mineral	8.0	14808-60-7	NA	NA	NA	NA
Charcoal (Biochar)	8.0 - 9.0	64365-11-3	NA	NA	NA	NA
EcoLive Mycorrhizae	6.0 - 7.0	NA	NA	NA	NA	NA
Ecobiotics Microbial Suite	6.5 - 6.7	NA	NA	NA	NA	NA
Potassium Sulfate (K-Mag OG)	7.0	14977-37-8	NA	NA	NA	NA
Reed Sedge Organics	6.4 - 6.6	NA	NA	NA	NA	NA

Section 3: HAZARD IDENTIFICATION

Emergency Overview: PermaMatrix BSP Grow is rich dark material of small to fine particles that may

contain other naturally occurring material. It has an earthy odor. It is not

combustible or explosive. A single, short term exposure to media presents little or

no hazard. Wash hands and exposed skin with soap and water after use.

Potential Health Effects:

Eye Contact: Eye contact to airborne dust may cause immediate or delayed irritation or

inflammation. Eye exposures require immediate first aid and medical attention to

prevent significant damage to the eye.

Skin Contact: Media may cause dry skin, abrasions, discomfort, and irritation.

Inhalation (acute):Breathing dust may cause nose, throat or lung irritation, including choking,

depending on the degree of exposure.

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Inhalation (chronic): Risk of injury depends on duration and level of exposure.

Section 3: HAZARD IDENTIFICATION (continued)

Ingestion: Do not ingest media. Although ingestion of small quantities of media is not known

to be harmful, large quantities can cause intestinal distress.

Medical Conditions

Aggravated by Exposure: Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary

disease) can be aggravated by exposure to dust.

Section 4: FIRST AID MEASURES

Eye Contact: Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to

remove all particles. Seek medical attention for abrasions.

Skin Contact: Wash with water and a pH neutral soap or a mild skin detergent. Seek medical

attention for rash or irritation.

Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or

other symptoms do not subside.

Ingestion: Remove from exposure, drink plenty of water. Seek medical attention if irritation

conditions persist. Product is inert and nontoxic.

Section 5: FIREFIGHTING MEASURES

Flashpoint & Method: Biochar Not Known Firefighting Equipment: Media poses no fire-

Others Non-combustible

General Hazard: Avoid Breathing dust.

related hazard. A SCBA is recommended to limit

exposures to combustion products when fighting any

fire.

Extinguishing Media: Use extinguishing media

appropriate for

surrounding fire.

Combustion Products: Biochar

Section 6: ACCIDENTAL RELEASE MEASURES

General: Place spilled material into a container. If uncontaminated, product can be reused.

Avoid actions that cause the media to become airborne. Avoid inhalation of dust.

Wear appropriate protective equipment as described in Section 8.

Waste Disposal Method: Spread over disturbed soils to enhance plant growth.

Section 7: HANDLING AND STORAGE

General: Stack bagged material in a secure manner to prevent falling. Bagged media is

heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control

measures.

Engulfment hazard. To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contains Media. Media can buildup or adhere to the walls of a confined

space. The Media can release, collapse or fall unexpectedly.

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Section 7: HANDLING AND STORAGE (continued)

Do not stand on stockpiles of Media, they may be unstable. Use engineering controls (e.g. wetting stockpiles) to prevent windblown dust from stockpiles, which

may cause the hazards described in Section 3.

Usage: Use all appropriate measures of dust control or suppression, and Personal

Protective Equipment (PPE) described in Section 8 below.

Housekeeping: Avoid actions that cause the media to become airborne during clean-up such as

dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with

water to clean-up dust. Use PPE described in Section 8 below.

Storage: Store Media separately from feed, food, pesticides, and fertilizers so that cross

contamination does not occur.

Storage Temperature: Unlimited. Storage Pressure: Unlimited.

Clothing: Remove and launder clothing that is dusty before it is reused.

WARNING: Large quantities of activated charcoal (especially when wet) can deplete oxygen from the air,

and dangerously low levels of oxygen may result. When workers enter a vessel containing straight activated carbon, procedures for potentially low oxygen areas should be followed. Activated

carbons are not listed as potential carcinogens by any agency.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use local exhaust or general dilution ventilation or other suppression methods to

maintain dust levels below exposure limits.

Personal Protective Equipment (PPE):

Respiratory Use appropriate NIOSH/MSHA approved particulate respirators if necessary.

Protection: Otherwise, use standard respiratory protection to avoid dust inhalation.

Eye Protection: Wear ANSI approved glasses or safety goggles when handling to prevent dust

contact with eyes. Wearing contact lenses when handling loose material, under

dusty conditions, is not recommended.

Skin Protection: Wear gloves and long sleeve shirts to protect existing abrasions or irritation from

dust in situations where irritation may occur. Remove clothing and protective

equipment that becomes dusty and launder before reusing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Evaporation Rate: NA

Appearance:Black to dark BrownpH (in water):6.6 +/-Odor:EarthyBoiling Point:NA

Vapor Pressure:NAFreezing Point:None, solidVapor Density:NAViscosity:None, solidSpecific Gravity:NASolubility in Water:Insoluble

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Section 10: STABILITY AND REACTIVITY

Stability: Stable. Avoid contact with incompatible materials.

Incompatibility: Stable

Hazardous Polymerization: None Hazardous Decomposition: None

Section 11: DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

Section 12: TRANSPORT INFORMATION

This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

Section 13: REGULATORY INFORMATION

OSHA/MSHA Hazard This product is not considered hazardous by OSHA/MSHA.

CERCLA/SUPERFUND: This product is not listed as a CERCLA hazardous substance.

EPCRA

SARA Title III: This product has not been listed by EPCRA SARA Title III

EPRCA This products contains none of the substances subject to the reporting

SARA Section 313: requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372.

RCRA: If discarded in its purchased form, this product would not be a hazardous waste

either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

Section 14: OTHER INFORMATION

This MSDS (Sections 1-14) was updated on November 3rd 2014.

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