

September 2014



MICHIGAN GROWER PRODUCTS, INC.

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PAR-BOILED RICE HULLS (PBH) NATURE'S MEDIA AMENDMENT

This material provides equivalent or higher levels of drainage and air-filled pore space when compared to perlite. In addition, PBH produces similar root and shoot growth and does not tie-up nitrogen or negatively impact the chemical properties of the substrate. Also with a high SILICON presence, it gives plants many natural features as in cell development.

Technical Data

Typical Physical Properties

Bulk Density, g/cc(lbs./ft.3)-----0.100(6.24)
Total pore Space, %-----89
Air-Filled Pore Space, %-----69
Water-Holding Capacity, % w/w-----65-85
Rice Hulls Show No Decomposition

Typical Chemical Analysis

SILICON, %-----6.0-10.0
pH-----6.2-6.6
Electrical Conductivity, mmho/cm-----.03-1.1
Nitrogen, %-----Less than 1.0
Phosphorus, %-----Less than 0.3
Potassium, %-----Less than 1.0
Ash, %-----14.0-20.0
Crude Fiber, %-----35.0-45.0

Michigan Grower Products is one of the leading custom soil media blenders. With the addition of PBH into any mix you will reap the benefits that comes along with it. While it does not add fertilizer it does add water-holding capacity and with the presence of SILICON you will see better root and shoot growth. So remember to add some to your next soil order for all the benefits and reduced cost of your product. Recommended rate of 10-30% you will achieve maximum productivity of your plant.

Michigan Grower Products produces high quality growing mixes loose filled in containers, 3 cubic foot bags or (54cuft) mini bulks including custom labeled retail bags. From a basic PBH or Perlite mix for all purpose growing media, to Basket and Large Container mix, which requires less watering. We have many mixes in between such as Perennial, Mum, Vinca/Pansy and a great plug mix. We do it all.

Michigan Grower Products uses these additives regularly and frequently:

**Actino-Iron®
Banrot®**

**Osmocote®/Multicote
WaterWorks Crystals®**

**Rock wool
Marathon®**

We can add other additives as long as they can be legally incorporated into the media at blending and are available.

The following are descriptions and feature / benefits of each.

Actino-Iron®

Actino-Iron Benefits

- Suppresses/Controls soil borne fungi including *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* and Many other root decay fungi
- Produces hardier, more vigorous plant and turf
- Enhances root system
- Breaks down mineral and micronutrients making them more available to the plant
- Contains complexed iron that releases slowly to the plant
- Reduces loss, increases production

Banrot® G

Broad-spectrum fungicide. This formulation is a granular for media incorporation. Systemic and contact activity on:

Fusarium Rhizoctonia
Pythium Thielaviopsis
Phytophthora

Fungicidal, not fungi static. Kills, doesn't simply suppress disease.

Marathon® 1% G

For systemic insect control on ornamental plants. The granular chemical product is translocated upward within the plant. To assure optimum effectiveness, the product must be placed by incorporation where the roots of the plant can absorb the active ingredient. Irrigate moderately but thoroughly after application, allowing no leaching and runoff from containers for at least 3 irrigations or 10 days, whichever is longer. Control includes these greenhouse pests, plus others: aphids, fungus gnat larvae, leaf miner, mealy bugs, thrips (suppression) and whiteflies.

Osmocote® /Multicote

Osmocote®, a slow release fertilizer, is composed of resin-encapsulated N-P-K granules, which provide nutrient release over various climatic zones; water vapor penetrates the permeable shell and dissolves the nutrients, which are released evenly through the coating at a rate determined by formulation and soil temperature.

Rock Wool

Natural basalt rock melted and spun to produce thin rock fibers. These fibers hold water physically through surface tension and give up most of the water to root pressure. Because the fibers don't expand when holding the water, air space is still present. Therefore compared to other media components, rock wool holds more available water and still provides adequate aeration for healthy root growth. The benefit is reduced frequency of watering in the greenhouse (labor saving if hand watering) and by home owner (improved shelf life at the store).

PBH®

Certified Organic media additive. This material provides equivalent or higher levels of drainage and air-filled pore space when compared to perlite. In addition, PBH produces similar root and shoot growth and does not tie-up nitrogen or negatively impact the chemical properties of the substrate. Also with a high SILICON presence, it gives plants many natural features as in cell development.

COIR

Certified Organic coconut fiber, ground and added to media for high water retention. Ability to retain nutrients against leaching and to buffer supply.

Roots 7-7-7®

NATURAL-BASED Plant Food with microbes. 7-7-7 stimulates root growth. Derived from cuprous oxide, diammonium phosphate, dolomite, feather meal, ferric oxide, ferrous sulfate, meat and bone meal, sulfate of potash, zinc oxide.

SUREMIX PRODUCTS

OUR TOP SELLERS

| | |
|----------------------------|---|
| PBH | Provides optimum air-filled pore space, water-holding capacity and drainage. Improved aeration less dust in mix and air. Most economical mix with Silicon. |
| Bark | Long term crops, offers the benefits of bark improved porosity long term crops |
| Basket | Reduced frequency of watering easier to rewet. |
| Bulb #1 Premium | Specially formulated to hold moisture but drains well. Offers the plant a rich supply of nutrients. |
| Large Container Mix | Great for large containers. Reduced watering. Bark & Coir |
| Geranium Premium | Crops requiring high pH and calcium excellent drainage. Excellent root development. |
| Great Grower | Basket Mix with Slow Release Fertilizer and Actino Iron. Reduced frequency of watering easier to rewet, the ultimate mix |
| Lily Premium | Specially formulated with the addition of Gypsum for calcium without raising the pH. Better drainage. |
| Mum Premium | Addition of soil creates necessary weight for mum crops. Less porous mix aids in nutrient absorption, also provides an excellent growing media for phlox crops |
| Perennial | Designed for containers, crops needing high % porosity, coarse texture, drains well. High bulk density long term crops |
| Perlite | General all-purpose mix. Good for potting or seeding and vegetative propagation. One of our top sellers |
| Plug | Plug production, and seed germination best used in plug trays 512 to 128.. Excellent porosity |
| Poinsettia Premium | Carefully balanced components create an optimal growing media for poinsettia crops. Added benefits of Actino-Iron contribute to root health & vigor. Improved porosity for a sensitive root |
| Vegie/MM | Organic based soil less media, is excellent for root development from seed to finish, with high porosity which brings out the best in plants. Ingredients: peat, perlite, coir, bark, lime, wetting agent and natural based plant food Roots® 7-7-7 |
| Vinca/Pansy | Our pH and EC targets are lower to provide you, the opportunity to better manage your vinca/pansy and/or other similar crops. Added benefits of Actino-Iron contribute to root health & vigor. |

RETAIL BAGS-PRIVATE LABEL

Did you know that along with your pre-filled containers and bagged material that Michigan Grower Products offers special labeled retail bags? In house printing is all black and white Label size 4"x6".

Retail bag sizes and colors available

(30 Qts)
1 cuft Black
1 cuft Purple

(45 Qts)
1.5 cuft Black
1.5 cuft Great Grower
(Premium Basket Mix)
1.5 cuft Green
1.5 cuft Purple
1.5 cuft White

(60 Qts)
2 cuft Black
2 cuft Purple



MGP Sales Discounts & Programs for Summer/Fall 2014 and Winter 2015

NEW TERM DATES JANUARY 1 & JUNE 1

SSS (Sure Summer Shipping Discount)

- 5% on all items shipped between May 1, and September 20,
- 4% on all items shipped between October 1, and October 20,
- 3% on all items shipped between November 1, and November 20

MED (Manufacturing Efficiency Discount)

- 5% on full truckloads of one mix in one package
- 3% of full truckload two mixes two packages
(after SSS discounts considered)

Net 30 Day Discount

3% discount- Invoice paid within 30 days on Terms Customers Only

COD-Cash on Delivery

NET 30- Pay total invoice in 30 days

TERMS

| | | |
|------|--------------|-----------------------|
| Ship | Dec1-May1 | payment due June 1 |
| Ship | May 2-Nov 30 | payment due January 1 |

1.5% per month finance charge for late pay
Terms for qualifying customers only.

To place your orders

e-mail order to michiangrower@surefill.com
 Fax orders to 1(269) 665-4410
 Phone orders to 1(800) 354-2713

Shows Michigan Grower Products attends

| | |
|------------------|----------------------------|
| Great Lakes Expo | American Hort/Cultivate 15 |
| Dec 9-11, 2014 | July 11-14, 2015 |
| Devos Place | Columbus Convention Ctr. |
| Grand Rapids, MI | Columbus, OH |
| Booth 102 | Booth 2141 |

Michigan Grower Products contacts

Dick Fisher Michigan Grower Products Salesman Muskegon, MI 231-766-1200

Michigan Grower Products Brokers

| | | | |
|---------------------------------|--------------------|----------------------|--------------|
| Cleveland Floral Products | (Tim O'Dell) | Columbia Station, OH | 440-748-1367 |
| Hort Pro | (Alan Yunkes) | Lake Orion, MI | 248-821-2728 |
| Soos Company 505 Edwards Street | (Kathie Bishop) | Middleville, MI | 269-795-7890 |
| Vandenberg Bulb Co | (Jack Vandenberg) | Howell, MI | 800-955-3813 |

