Mycorrhizae
Increase Your Root Structure 100-1,000 Times

MycoApply’s mycorrhizal options consist of specifically selected species of fungi and bacteria in multiple formulations designed for a wide variety of uses. Mycorrhizae colonize roots and extend into the surrounding soil, forming an essential link between plant and soil resources by greatly increasing the root’s surface absorbing area and the plant’s ability to absorb water and nutrients. Several miles of fungal filaments can be present in less than a thimbleful of soil.

Mycorrhizal fungi also release powerful enzymes into the soil that dissolve hard-to-capture nutrients, such as organic nitrogen, phosphorus, iron and other “tightly bound” soil nutrients. These beneficial fungi build a natural microbial system which greatly enhances plant growth, yields, vigor and tolerance of environmental extremes. Mycorrhizal fungi form an intricate web that captures and assimilates nutrients, conserving the nutrient capital in soils. This extraction process is particularly important to plant nutrition.

**MycoApply® Endo**
MycoApply® Endo is a granular inoculum consisting of four carefully selected species of endomycorrhizae. About 80% of the world’s plant species form a mycorrhizae relationship with these beneficial endomycorrhizal fungi.

Restoration Application Rate: 20 pounds per acre (1.2 million propagules per acre)

Endomycorrhizal fungi: Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum – 60,000 propagules per pound

**MycoApply® Micronized Endo**
MycoApply® Micronized Endo is a micronized powder inoculum consisting of a four species blend of spores of arbuscular mycorrhizal fungi (endomycorrhizal fungi). The powder comes in a particle size less than 300 microns (#50 screen). About 90% of the world’s plant species form a mycorrhizae relationship with these beneficial endomycorrhizal fungi.

Restoration Application Rate: 10 pounds per acre (1 million propagules per acre)

Endomycorrhizal fungi: Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum – 100,000 propagules per pound
MycoApply® All Purpose Granular

MycoApply® All Purpose Granular is a granular inoculum consisting of 16 carefully selected species of endomycorrhizae and ectomycorrhizae, along with five bacterial species. A high quality biostimulant package (containing kelp, humic & fulvic acids, vitamins and amino acids) is added to improve mycorrhizal germination and effectiveness. About 90% of the world’s plant species form a mycorrhizae relationship with these beneficial endomycorrhizal and ectomycorrhizal fungi.

Application Rate: Application rates vary, please call for rates based on your specific needs.

Endomycorrhizal fungi: Glomus intraradices, G. mosseeae, G. aggregatum, G. etunicatum, G. clarum, G. deserticola, G. momosporum, Paraglomus brasilianum, Giaspora margarita – 30,000 propagules per pound

Ectomycorrhizal fungi: Rhizopogon villosullus, R. luteolus, R. amylopogon, R. fulvigleba, Psolitthus tinctorius, Scleroderma Cepa, S. citrinum – 140 million propagules per pound

Bacteria: Bacillus subtilis, B. licheniformis, B. pumulis, B. amyloliquefaciens, B. megatarium – 6 billion cfu/lb.

Other Non-plant food ingredients: Kelp, humic & fulvic acids, vitamins and amino acids

MycoApply® Soluble Maxx

MycoApply® Soluble Maxx is a soil drench for porous soil and contains 19 carefully selected mycorrhizal fungi, two trichoderma species and 12 bacterial species well-suited to a variety of soils, climates and plants. Also included is a specially formulated natural root biostimulant. MycoApply® Soluble Maxx can be stored in a cool, dry area for 24 months without loss of viability.

Application Rate: 8 ounces per 100 gallons of water or 1 pound per 200 gallons of water

Endomycorrhizal fungi: 9 species 33,100 propagules per pound
Ectomycorrhizal fungi: 10 species 1,500,000,000 propagules per pound
Trichoderma: 300,000,000 cfu/lb
Bacteria: 12 species 6,000,000,000 cfu/lb

Other Mycorrhizae Products Available Include:

MycoApply® Ultrafine Endo – 4 speices of Endo mycorrhizae - Glomus intraradices, G. mosseeae, G. aggregatum, G. etunicatum @ 130,000 propagules per lb.

MycoApply® Liquid Endo (1Gallon containers)- Four top performing endomycorrhizal fungi, used for concentrated agricultural purposes. 3.6 million propagules per gallon.
MycoApply® All Purpose Soluble

MycoApply® All Purpose Soluble is a soil drench for porous soil and contains 9 carefully selected Endo and Ecto mycorrhizal fungi, high quality organic fertilizer and kelp well-suited to a variety of soils, climates and plants. MycoApply® All Purpose Soluble contains 9 specially selected top performing mycorrhizal fungi that colonize plant roots and extend the root system into the surrounding soil greatly enhancing the absorptive surface area of root systems, forming an essential link between plant and soil and producing seedlings of the highest quality. The plant enjoys improved nutrient and water uptake and superior field performance.

**Directions**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the inoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing landscape trees</td>
<td>Mix 1 lb. bag in 200 gallons of water or use spray pattern for deep root feeding. Inject 1/2 gallon per hole 2-5 times a year. Plant performance improves with every application. Since water is the carrier more concentrated solutions can be made for stressed plants.</td>
</tr>
<tr>
<td>trees and shrubs</td>
<td></td>
</tr>
<tr>
<td>B&amp;B plantings</td>
<td>Mix 1 lb. bag in 200 gallons of water. Spray or pour on the root balls until saturated just before backfilling.</td>
</tr>
<tr>
<td>Turf and Nursery</td>
<td>Mix 1 lb. bag in 200 gallons of water. Use as soil drench in porous media. Each pound treats 2000 square ft. of turf. Each pound treats 2000 square ft. nursery area for small plants or 4000 square feet of nursery area for plants 1 gallon size or larger. Use 2-5 times a year. May be mixed with spray equipment that allows passage of No. 70 screen (212 microns) or larger particles.</td>
</tr>
</tbody>
</table>

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo's</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 10,000 prop./lb. each</td>
</tr>
<tr>
<td>Ecto's</td>
<td>Rhizophogon villosullus, R. luteolus, R. amyloligogen, R. fulvilega (2.5 million prop./lb. each), Pisolithus tinctorius (200 million prop./lb.)</td>
</tr>
<tr>
<td>Other</td>
<td>High Quality Slow Release Organic Fertilizer 6-0.5-4 and Kelp</td>
</tr>
</tbody>
</table>

**Disclaimer:** Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
### Planting Application Rates for MycoApply® All Purpose Soluble powder

**Step One:** Mix 2 tablespoons of MycoApply® All Purpose Soluble powder per one gallon of water. Stir well.

**Step Two:** Using the inoculum / water mixture, drench or irrigate plants at time of transplant using the rates shown below. Make sure your application moistens all the roots or container soil with the mixture, but avoid excess run-off.

**Note:** Exceeding these rates is not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th>Application Per Planting</th>
<th># of plants/ 1-lb package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>1 gallon/ 12 sq. ft.</td>
<td>8 oz./100 sq. ft.</td>
<td>300 sq. ft.</td>
</tr>
<tr>
<td>4 inch</td>
<td>1 gallon/ 13 plants</td>
<td>4 ounces</td>
<td>325</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1 gallon/ 7 plants</td>
<td>12 ounces</td>
<td>175</td>
</tr>
<tr>
<td>2 gallon</td>
<td>1 gallon/ 3 plants</td>
<td>1/4 gallon</td>
<td>75</td>
</tr>
<tr>
<td>5 gallon or 0.5&quot; caliper</td>
<td>3 gallons/ 2 plants</td>
<td>3/4 gallon</td>
<td>17</td>
</tr>
<tr>
<td>10 gallon or 1&quot; caliper</td>
<td>5 gallons/ 2 plants</td>
<td>1 1/4 gallons</td>
<td>10</td>
</tr>
<tr>
<td>15 gallons or 2&quot; caliper</td>
<td>2 gallons/ 1 plant</td>
<td>2 gallons</td>
<td>100</td>
</tr>
<tr>
<td>24&quot; plant or 3&quot; caliper</td>
<td>10 gallons/ 2 plants</td>
<td>4 gallons</td>
<td>5</td>
</tr>
<tr>
<td>36&quot;+ plant or 6&quot; caliper</td>
<td>15 gallons/ 2 plants</td>
<td>6 gallons</td>
<td>3</td>
</tr>
<tr>
<td>0-2 ft. trees</td>
<td>1 gallon/ 13 trees</td>
<td>9.8 ounces</td>
<td>325</td>
</tr>
<tr>
<td>2-4 ft. trees</td>
<td>1 gallon/ 1 tree</td>
<td>1 gallon</td>
<td>25</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>5 gallons/ 1 tree</td>
<td>5 gallons</td>
<td>5</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>8 gallons/ 1 tree</td>
<td>8 gallons</td>
<td>3</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>8.5+ gallons/ 1 tree</td>
<td>8.5+ gallons</td>
<td>2 or fewer</td>
</tr>
</tbody>
</table>

*Assumes 1 pound MycoApply® All Purpose Soluble powder per 200 gallons water.

*Approximately 53 Tbsp per pound of product (Dry)

*Recommended two applications per year or apply both applications at same time, allowing first application to soak in before applying the second application.

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.

Rev: 11-12-2011
MycoApply® Soluble MAXX

MycoApply® Soluble MAXX is a soil drench for porous soil and contains 19 carefully selected mycorrhizal fungi, 2 trichoderma species and 12 bacterial species well-suited to a variety of soils, climates and plants. MycoApply® Soluble MAXX contains mycorrhizal fungi that colonize plant roots and extend the root system into the surrounding soil greatly enhancing the absorptive surface area of root systems, forming an essential link between plant and soil and producing seedlings of the highest quality. Also included are a blend of specially formulated amendments. The plant enjoys improved nutrient and water uptake, enhanced disease resistance and superior field performance. The ultimate product for re-establishing biological diversity in soil and ensuring MAXX performance.

Directions

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the inoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watering in</td>
<td>(Porous soil only)- Mix 8 oz. into 100 gallons of water, or 16 oz. into 200 gallons of water. Use spray pattern for deep root feeding. Inject 1/2 gallon per hole 2 times a year, or more frequently for stressed plants. Can be used any time root systems are active. May be mixed with mechanical equipment that allows passage of No. 70 screen (212 microns) or smaller.</td>
</tr>
<tr>
<td>B&amp;B plantings</td>
<td>Mix 8 ounces in 100 gallons of water or 16 ounces in 200 gallons of water. Spray or pour on the root balls until saturated just before backfilling.</td>
</tr>
<tr>
<td>Nurseries</td>
<td>Mix 1 pound with 200 gallons of water. Use as soil drench in porous media. Each pound treats 2,000 sq. ft. of nursery area for small plants, or 4,000 square feet of nursery area for 1 gallon size plants or larger.</td>
</tr>
</tbody>
</table>

Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Endo’s</strong></td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum (5,900 prop./lb each). G.monosporum, G. clarum, G. deserticola, Gigaspora margarita, Paraglomus brasiliannum,(1,900 prop./lb. each).</td>
</tr>
<tr>
<td><strong>Ecto’s</strong></td>
<td>Rhizopogon villosullus, R. luteolus, R. amylopogon, R. fulvigleba (95 million prop./lb each), Pisolithus tinctorius (568 million prop./lb.), Laccaria bicolor and L. laccata (38 million prop./lb. each), Scleroderma cepa, S. citrinum (189 million prop./lb. each), Suillus granulatus (118 million prop./lb. each)</td>
</tr>
<tr>
<td><strong>Other Beneficial Organisms</strong></td>
<td>Trichoderma harzianum and T. konigii. -150 million cfu/lb. each.</td>
</tr>
<tr>
<td><strong>Specially Formulated Amendments</strong></td>
<td>1 - 0.5 – 5: Humic, Kelp and Vitamins</td>
</tr>
</tbody>
</table>

Disclaimer: Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
Planting Application Rates for MycoApply® Soluble Maxx

**Step One:** Mix 2 tablespoons of MycoApply® All Purpose Soluble powder per one gallon of water. Stir well.

**Step Two:** Using the inoculum / water mixture, drench or irrigate plants at time of transplant using the rates shown below. Make sure your application moistens all the roots or container soil with the mixture, but avoid excess run-off.

**Note:** Exceeding these rates is not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th>Application Per Planting Hole</th>
<th># of plants/ 1-lb package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>1 gallon / 10 sq. ft.</td>
<td>1 gallon / 10 sq. ft.</td>
<td>255 sq. ft.</td>
</tr>
<tr>
<td>4 inch</td>
<td>1 gallon / 13 plants</td>
<td>8 ounces</td>
<td>276</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1 gallon / 7 plants</td>
<td>24 ounces</td>
<td>149</td>
</tr>
<tr>
<td>2 gallon</td>
<td>1 gallon / 3 plants</td>
<td>.5 gallon</td>
<td>64</td>
</tr>
<tr>
<td>5 gallon or 0.5&quot; caliper</td>
<td>3 gallons / 2 plants</td>
<td>1.5 gallons</td>
<td>14</td>
</tr>
<tr>
<td>10 gallon or 1&quot; caliper</td>
<td>5 gallons / 2 plants</td>
<td>2.5 gallons</td>
<td>9</td>
</tr>
<tr>
<td>15 gallon or 2&quot; caliper</td>
<td>4 gallons / 1 plant</td>
<td>4 gallons</td>
<td>100</td>
</tr>
<tr>
<td>24&quot; plant or 3&quot; caliper</td>
<td>10 gallons / 2 plants</td>
<td>8 gallons</td>
<td>4</td>
</tr>
<tr>
<td>36&quot; plant or 6&quot; caliper</td>
<td>15 gallons / 2 plants</td>
<td>12 gallons</td>
<td>2</td>
</tr>
<tr>
<td>0-2 ft. trees</td>
<td>1 gallon / 13 trees</td>
<td>9.8 ounces</td>
<td>276</td>
</tr>
<tr>
<td>2-4 ft. trees</td>
<td>1 gallon / 1 tree</td>
<td>1 gallon</td>
<td>21</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>5 gallons / 1 tree</td>
<td>5 gallons</td>
<td>4</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>8 gallons / 1 tree</td>
<td>8 gallons</td>
<td>2</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>8.5 gallons or more per tree</td>
<td>8.5+ gallons</td>
<td>2 or fewer</td>
</tr>
</tbody>
</table>

*Assumes 1 pound MycoApply® Soluble MAXX powder per 200 gallons water.
* Approximated 57 Tbsp per pound of product (Dry)
* Recommended two applications per year. Stressed plants and sites benefit from higher rates of usage.

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.
Rev: 11-12-2011
MycoApply® Endo mycorrhizal granular inoculum consists of 4 carefully selected species of endomycorrhizae. About 80% of the world’s plant species form with these types of mycorrhizae. These beneficial fungi greatly increase the effective rooting area of plants thereby enhancing plant growth, vigor and tolerance of environmental extremes. MycoApply® Endo is a granular material containing mycorrhizal fungi that colonize roots and extend into the surrounding soil forming an essential link between plant and soil resources. They greatly increase the root’s ability to absorb water and nutrients, while improving plant survival, vigor and health.

### Directions

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the innoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restoration</td>
<td>Inoculum can be hydromulched or banded in rows with seed during planting at 20 lbs. per acre. Use 40 to 60 lbs. per acre to broadcast or rototill before planting.</td>
</tr>
<tr>
<td>Turf</td>
<td>Apply during installation or aerification of turf. During installation or aerification of turf use .25 to .5 pound per 1000 sq. ft.</td>
</tr>
<tr>
<td>Nurseries</td>
<td>Inoculum can be mixed in planting soil before/during filling cavities, pots, and trays. May be mixed with mechanical equipment that allows passage of a #8 screen (2.5mm) or larger particles. For propagation: Use 2-6 pounds per cubic yard, depending on cavity size (higher rates for smaller cavities).</td>
</tr>
<tr>
<td>Plantings</td>
<td>Apply in furrow 1 teaspoon per row foot; Cuttings-1/2 teaspoon under each cutting; Potted Transplants- Use 1-2 tablespoons per gallon planting size; Ball and Burlap plantings - Use 0.5 to 1.5 ounces per inch of stem caliper.</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Band or mix with seed at 2 lbs/acre.</td>
</tr>
</tbody>
</table>

### Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo’s</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 60,000 propagules/lb.</td>
</tr>
</tbody>
</table>

**Disclaimer:** Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
Horticultural & Landscape Planting Application Rates for MycoApply® Endo (granular) Inoculant

For container planting: Blend 1.2 ounces of MycoApply® Endo (granular) per one cubic foot of growing medium. Plant seed or transplant seedlings directly into the blended medium.

For landscape transplanting: Broadcast MycoApply® Endo (granular) evenly around the sides and bottom of the planting hole to maximize root contact. Transplant using standard methods into the treated planting hole.

Note: Exceeding these rates in not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th># of Plants / Pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>4 oz. / 100 sq. ft.</td>
<td>420 sq. ft</td>
</tr>
<tr>
<td>4 inch</td>
<td>1.6 oz. / 50 plants</td>
<td>500</td>
</tr>
<tr>
<td>1 gallon</td>
<td>3.2 oz. / 50 plants</td>
<td>250</td>
</tr>
<tr>
<td>2 gallon</td>
<td>4 oz. / 25 plants</td>
<td>100</td>
</tr>
<tr>
<td>5 gallon or 0.5&quot; caliper</td>
<td>3.2 oz. / 5 plants</td>
<td>25</td>
</tr>
<tr>
<td>10 gallon or 1&quot; caliper</td>
<td>1.12 oz. / 1 plant or tree</td>
<td>14</td>
</tr>
<tr>
<td>24&quot; plant or 3&quot; caliper</td>
<td>2 oz. / 1 plant or tree</td>
<td>8</td>
</tr>
<tr>
<td>36&quot;+ plant or 6&quot; caliper</td>
<td>3.2 oz. / 1 plant or tree</td>
<td>5</td>
</tr>
<tr>
<td>0-2 ft. trees</td>
<td>1.6 oz. / 50 plants</td>
<td>500</td>
</tr>
<tr>
<td>2-4 ft. trees</td>
<td>4.3 oz. / 10 trees</td>
<td>38</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>2 oz. / 1 tree</td>
<td>8</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>3.2 oz. / 1 tree</td>
<td>5</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>4 oz. or more per tree</td>
<td>4 or fewer</td>
</tr>
</tbody>
</table>

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.

Rev: 11-12-2011

Rocky Mountain Bio Products
A Division of SOWMAN Construction Supply, Inc.

(303) 696-8964
www.rockymtnbioproducts.com
MycoApply® Micronized Endo

MycoApply® Micronized Endo mycorrhizal micronized powder inoculum consists of a 4 species blend of spores of arbuscular mycorrhizal fungi (endomycorrhizal fungi). The powder comes in a particle size less than 300 microns (#50 screen). About 90% of the world’s plant species form mycorrhizae with these beneficial endomycorrhizal fungi. These beneficial fungi colonize plant roots, expand into the surrounding soil and greatly increase the root’s ability to absorb water and nutrients, while improving plant yields and health.

Directions

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the inoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Band or mix with seed on average approximately 1 lb. per acre. Rates vary by crop and seed planting density. See MycoApply® crop inoculation guide for specifics.</td>
</tr>
<tr>
<td>Restoration</td>
<td>Use 10 pounds per acre for broadcast or hydromulch applications.</td>
</tr>
<tr>
<td>Nurseries</td>
<td>Inoculum can be mixed in planting soil before/during filling cavities, pots, and trays. Use .25 to .75 pounds per cubic yard. Use higher rate if filling small individual cavities.</td>
</tr>
<tr>
<td>Transplants</td>
<td>Touch damp roots to the inoculum so a small amount sticks to the roots or sprinkle into planting holes. Use 1/4 tsp. Under each cutting: 1-2 tsp. for potted transplants or 1/2 ounce per inch of stem caliper plantings.</td>
</tr>
</tbody>
</table>

Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo’s</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 100,000 propagules/lb.</td>
</tr>
</tbody>
</table>

Disclaimer: Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
Horticultural & Landscape Planting Application Rates for MycoApply® Micronized Endo (powder) Inoculant

**Step One:** Mix 2.5 teaspoons of MycoApply® Ultrafine Endo (powder) per one gallon of water. Stir well.

**Step Two:** Using the inoculum / water mixture, drench or irrigate plants at time of transplant using the rates shown below. Make sure your application moistens all the roots or container soil with the mixture, but avoid excess run-off.

**Note:** Exceeding these rates is not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th># of plants / pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>1 gallon / 9 sq. ft.</td>
<td>750 sq. ft.</td>
</tr>
<tr>
<td>4 inch</td>
<td>1 gallon / 10 plants</td>
<td>812</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1 gallon / 5 plants</td>
<td>437</td>
</tr>
<tr>
<td>2 gallon</td>
<td>1 gallon / 2 plants</td>
<td>187</td>
</tr>
<tr>
<td>5 gallon or 0.5” caliper</td>
<td>6 gallons / 3 plants</td>
<td>42</td>
</tr>
<tr>
<td>10 gallon or 1” caliper</td>
<td>10 gallons / 3 plants</td>
<td>25</td>
</tr>
<tr>
<td>24” plant or 3” caliper</td>
<td>20 gallons / 3 plants</td>
<td>12</td>
</tr>
<tr>
<td>36”+ plant or 6” caliper</td>
<td>30 gallons / 3 plants</td>
<td>8</td>
</tr>
<tr>
<td>(100) 0-2 ft. trees</td>
<td>1 gallon / 10 trees</td>
<td>812</td>
</tr>
<tr>
<td>(10) 2-4 ft. trees</td>
<td>4 gallons / 1 tree</td>
<td>62</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>15 gallons / 7 trees</td>
<td>12</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>32 gallons / 3 trees</td>
<td>8</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>8.5 gallons or more per tree</td>
<td>4 or fewer</td>
</tr>
</tbody>
</table>

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.

Rev: 11-12-2011
MycoApply® Ultrafine Endo

MycocMycoApply® Ultrafine Endo micronized mycorrhizal powder inoculum consists of a blend of spores of 4 endomycorrhizal fungi species. The powder comes in a particle size less than 220 microns (#70 screen). This concentrated, fine material is ideal for “water in” or “spray” applications. About 90% of the world’s plant species form symbiotic relationships with these beneficial endomycorrhizal fungi. They colonize plant roots, expand into the surrounding soil and greatly increase the root’s ability to absorb water and nutrients, while improving plant yields and health.

Directions

MycoApply® Ultrafine Endo

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the innoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Band or mix with seed on average approximately 0.7 lbs. per acre. Rates vary by crop and seed planting density. See MycoApply® crop inoculation guide for specifics.</td>
</tr>
<tr>
<td>Restoration</td>
<td>Use 7.5 pounds per acre for broadcast or hydromulch operation before or during plantings.</td>
</tr>
<tr>
<td>Nurseries</td>
<td>Inoculum can be mixed in planting soil before/during filling cavities, pots, and trays. Use .20 to .60 pounds per cubic yard, depending on cavity size (higher rates for smaller cavities).</td>
</tr>
<tr>
<td>Compost Tea</td>
<td>Use 1 pound per 50 gallons of tea, as a soil drench. Apply tea at normal rate.</td>
</tr>
<tr>
<td>Turf</td>
<td>One pound will treat 5,000 sq/ft. porous soil. Water thoroughly after application.</td>
</tr>
<tr>
<td>Water In</td>
<td>(Porous Soils Only) Mix into water at minimum rate of 1 tablespoon per gallon (No harm in using ratios if desired -- especially for problem plants). Mix well and keep agitated. Mist or dip plant root systems during transplanting or water in as a soil drench. The objective is to get spores in close contact to the roots. Will treat 50 one-gallon plants. Use 2 times per year. Best in Spring and Fall.</td>
</tr>
<tr>
<td>Transplants</td>
<td>Touch damp roots to the inoculum so a small amount sticks to the roots or sprinkle into planting holes. Use 1/4 tsp. under each cutting: 1-2 tsps. for potted transplants 1/2 ounces per inch of stem caliper plantings.</td>
</tr>
</tbody>
</table>

Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo’s</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 130,000 propagules/lb.</td>
</tr>
</tbody>
</table>

Disclaimer: Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
Horticultural & Landscape Planting Application Rates for MycoApply® Ultrafine Endo (powder) Inoculant

**Step One:** Mix 2.5 teaspoons of MycoApply® Ultrafine Endo (powder) per one gallon of water. Stir well

**Step Two:** Using the inoculum/water mixture, drench or irrigate at time of transplant using the rates shown below. Make sure your application moistens all the roots or container soil with the mixture, but avoid excess run-off.

**Note:** Exceeding the rates is not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th># of plants / pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>1 gallon / 12 sq. ft.</td>
<td>975 sq. ft.</td>
</tr>
<tr>
<td>4 inch</td>
<td>1 gallon / 13 plants</td>
<td>1,056</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1 gallon / 7 plants</td>
<td>569</td>
</tr>
<tr>
<td>2 gallon</td>
<td>1 gallon / 3 plants</td>
<td>244</td>
</tr>
<tr>
<td>5 gallon or 0.5&quot; caliper</td>
<td>3 gallons / 2 plants</td>
<td>55</td>
</tr>
<tr>
<td>10 gallon or 1&quot; caliper</td>
<td>5 gallons / 2 plants</td>
<td>33</td>
</tr>
<tr>
<td>24&quot; plant or 3&quot; caliper</td>
<td>10 gallons / 2 plants</td>
<td>16</td>
</tr>
<tr>
<td>36&quot;+ plant or 6&quot; caliper</td>
<td>15 gallons / 2 plants</td>
<td>10</td>
</tr>
<tr>
<td>(100) 0-2 ft. trees</td>
<td>1 gallon / 13 trees</td>
<td>1,056</td>
</tr>
<tr>
<td>(10) 2-4 ft. trees</td>
<td>1 gallon / 1 tree</td>
<td>81</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>5 gallons / 1 tree</td>
<td>16</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>8 gallons / 1 tree</td>
<td>10</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>8.5 gallons or more per tree</td>
<td>7 or fewer</td>
</tr>
</tbody>
</table>

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.

Rev: 11-12-2011
MycoApply® Liquid Endo Gallon

MycoApply® Liquid Endo Gallon is a concentrated liquid of 4 top performing endomycorrhizal fungi in distilled water used as a soil drench or seed inoculant. MycoApply® Liquid Endo Gallon contains mycorrhizal fungi that colonize plant roots and extend the root system into the surrounding soil greatly enhancing the absorptive surface area of root systems and form an essential link between plant and soil. The plant enjoys improved nutrient and water uptake, root health and superior field performance.

Directions

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the inoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row Crops</td>
<td>One gallon treats 40 acres during seeding.</td>
</tr>
<tr>
<td>Orchard: Mature</td>
<td>One gallon will treat 10 acres.</td>
</tr>
<tr>
<td>Orchard: Young</td>
<td>One gallon will treat 20 acres.</td>
</tr>
<tr>
<td>Other</td>
<td>Can be diluted or mixed with other compatible liquids during application.</td>
</tr>
</tbody>
</table>

Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo's</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 238 propagules/ml. each.</td>
</tr>
</tbody>
</table>

Disclaimer: Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
MycoApply® All Purpose Soluble

MycoApply® All Purpose Soluble is a soil drench for porous soil and contains 9 carefully selected Endo and Ecto mycorrhizal fungi, high quality organic fertilizer and kelp well-suited to a variety of soils, climates and plants. MycoApply® All Purpose Soluble contains 9 specially selected top performing mycorrhizal fungi that colonize plant roots and extend the root system into the surrounding soil greatly enhancing the absorptive surface area of root systems, forming an essential link between plant and soil and producing seedlings of the highest quality. The plant enjoys improved nutrient and water uptake and superior field performance.

Directions

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rates: The goal is to create physical contact between the innoculant and seed/root</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing landscape trees and shrubs</td>
<td>Mix 1 lb. bag in 200 gallons of water or use spray pattern for deep root feeding. Inject 1/2 gallon per hole 2-5 times a year. Plant performance improves with every application. Since water is the carrier more concentrated solutions can be made for stressed plants.</td>
</tr>
<tr>
<td>B&amp;B plantings</td>
<td>Mix 1 lb. bag in 200 gallons of water. Spray or pour on the root balls until saturated just before backfilling.</td>
</tr>
<tr>
<td>Turf and Nursery</td>
<td>Mix 1 lb. bag in 200 gallons of water. Use as soil drench in porous media. Each pound treats 2000 square ft. of turf. Each pound treats 2000 square ft. nursery area for small plants or 4000 square feet of nursery area for plants 1 gallon size or larger. Use 2-5 times a year. May be mixed with spray equipment that allows passage of No. 70 screen (212 microns) or larger particles.</td>
</tr>
</tbody>
</table>

Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endo's</td>
<td>Glomus intraradices, G. mosseae, G. aggregatum, G. etunicatum: 10,000 prop./lb. each</td>
</tr>
<tr>
<td>Ecto's</td>
<td>Rhizopogon villosullus, R. luteolus, R. amylopogon, R. fulvigleba (2.5 million prop./lb. each), Pisolithus tinctorius (200 million prop./lb.)</td>
</tr>
<tr>
<td>Other</td>
<td>High Quality Slow Release Organic Fertilizer 6-0.5-4 and Kelp</td>
</tr>
</tbody>
</table>

Disclaimer: Statement of Claims: MA, Inc. certifies that this product contains the indicated mycorrhizal fungi and propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and MA, Inc. is unable to make guarantees beyond the above statements. Rev: 11-12-2011
### Planting Application Rates for MycoApply® All Purpose Soluble powder

**Step One:** Mix 2 tablespoons of MycoApply® All Purpose Soluble powder per one gallon of water. Stir well.

**Step Two:** Using the inoculum / water mixture, drench or irrigate plants at time of transplant using the rates shown below. Make sure your application moistens all the roots or container soil with the mixture, but avoid excess run-off.

**Note:** Exceeding these rates is not harmful to plants or environment, however one application at these rates should be all that is necessary. Treatment is permanent for the life of the plant.

<table>
<thead>
<tr>
<th>Plant or Container Size</th>
<th>Application Rate</th>
<th>Application Per Planting Hole</th>
<th># of plants/ 1-lb package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square feet of nursery trays</td>
<td>1 gallon/ 12 sq. ft.</td>
<td>8 oz./ 100 sq. ft.</td>
<td>300 sq. ft.</td>
</tr>
<tr>
<td>4 inch</td>
<td>1 gallon/ 13 plants</td>
<td>4 ounces</td>
<td>325</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1 gallon/ 7 plants</td>
<td>12 ounces</td>
<td>175</td>
</tr>
<tr>
<td>2 gallon</td>
<td>1 gallon/ 3 plants</td>
<td>1/4 gallon</td>
<td>75</td>
</tr>
<tr>
<td>5 gallon or 0.5&quot; caliper</td>
<td>3 gallons/ 2 plants</td>
<td>3/4 gallon</td>
<td>17</td>
</tr>
<tr>
<td>10 gallon or 1&quot; caliper</td>
<td>5 gallons/ 2 plants</td>
<td>1 1/4 gallons</td>
<td>10</td>
</tr>
<tr>
<td>15 gallons or 2&quot; caliper</td>
<td>2 gallons/ 1 plant</td>
<td>2 gallons</td>
<td>100</td>
</tr>
<tr>
<td>24&quot; plant or 3&quot; caliper</td>
<td>10 gallons/ 2 plants</td>
<td>4 gallons</td>
<td>5</td>
</tr>
<tr>
<td>36&quot;+ plant or 6&quot; caliper</td>
<td>15 gallons/ 2 plants</td>
<td>6 gallons</td>
<td>3</td>
</tr>
<tr>
<td>0-2 ft. trees</td>
<td>1 gallon/ 13 trees</td>
<td>9.8 ounces</td>
<td>325</td>
</tr>
<tr>
<td>2-4 ft. trees</td>
<td>1 gallon/ 1 tree</td>
<td>1 gallon</td>
<td>25</td>
</tr>
<tr>
<td>4-10 ft. trees</td>
<td>5 gallons/ 1 tree</td>
<td>5 gallons</td>
<td>5</td>
</tr>
<tr>
<td>10-20 ft. trees</td>
<td>8 gallons/ 1 tree</td>
<td>8 gallons</td>
<td>3</td>
</tr>
<tr>
<td>20+ ft. trees</td>
<td>8.5+ gallons/ 1 tree</td>
<td>8.5+ gallons</td>
<td>2 or fewer</td>
</tr>
</tbody>
</table>

*Assumes 1 pound MycoApply® All Purpose Soluble powder per 200 gallons water.
*Approximately 53 Tbsp per pound of product (Dry)
*Recommended two applications per year or apply both applications at same time, allowing first application to soak in before applying the second application.

Statement of Claims: M.A., Inc. certifies that this product contains the indicated mycorrhizal propagule rates stated on the label. The mycorrhizal symbiosis is sensitive to environmental conditions and M.A., Inc. is unable to make guarantees beyond the above statements. M.A., Inc. is not responsible for the use or misuse of this product. Liability is limited to the replacement of an equivalent amount of product.
Rev: 11-12-2011
SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION
Product Name: MycoApply® Endo
Product Code: FMAEN
Product Use: Inoculant
Supplier: Mycorrhizal Applications, LLC
Address: 710 NW E Street, Grants Pass, OR 97526
Phone Number: 866-476-7800 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION
Classification:
Acute Oral: Category 4
Eye irritation: Category 2B
Prevention Statements:
Avoid breathing dust
Use outdoors or in a well-ventilated area
Response Statements:
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Storage:
Keep container tightly closed.
Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Concentration (w/w %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Hydrated (Amorphous Opaline Silica)</td>
<td>7631-86-9</td>
<td>90-99 %</td>
</tr>
<tr>
<td>Quartz (Respirable &lt;0.1%)</td>
<td>14808-60-7</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Proprietary-Other Ingredients</td>
<td>Trade Secret</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
If Inhaled: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
If on Skin: Wash with soap and water. Then apply hand lotion. Exposure to skin may cause mild irritation and dry skin.
If in Eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
If Swallowed: If symptoms persist consult doctor.
If Inhaled: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
5. **FIRE FIGHTING MEASURES**
   - **Extinguishing Media:** Use media that is appropriate for surrounding fire.
   - **Special Exposure Hazards:** None known
   - **Special Protective Equipment / Procedures for Firefighters:** None known

6. **ACCIDENTAL RELEASE MEASURES**
   - **Personal Precautions:** None known
   - **Environmental Precautions:** None known
   - **Containment / Clean-Up Methods:** Sweep up and collect for proper disposal

7. **HANDLING & STORAGE**
   - **Handling:** Avoid breathing dust. Ensure good ventilation/exhaustion at the workplace.
   - **Storage:** Store in a dry area. Avoid consistent temperature above 120 degrees Fahrenheit. Keep container tightly sealed.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**
   - **Occupational Exposure Limits:**
   - **Engineering Controls:** For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.
   - **Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.
   - **Personal Protective Equipment:**
     - **Clothing:** None required for normal use.
     - **Eye Protection:** Safety glasses or goggles recommended
     - **Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.

9. **PHYSICAL & CHEMICAL PROPERTIES**
   - **Appearance:** Gray to tan granules
   - **Upper/Lower flammability limits:** Not applicable
   - **Odor:** No odor
   - **Odor threshold:** Not available
   - **pH:** Not applicable
   - **Melting/Freezing point:** 1610°C / Not applicable
   - **Boiling point:** 4046°F (2230°C)
   - **Flash point:** Not applicable
   - **Evaporation rate:** Not available
   - **Flammability (solid, gas):** Not applicable
   - **Vapor pressure:** Not available
   - **Vapor density: (air =1)** Not applicable
   - **Specific Gravity: (H₂O = 1)** 2.2
   - **Solubility:** Insoluble
   - **Partition coefficient** (n-octanol-water): Not determined
   - **Auto-ignition temperature:** Not applicable
   - **Decomposition temperature:** Not applicable
   - **Viscosity:** Not applicable

10. **STABILITY & REACTIVITY**
    - **Reactivity hazards:** No further relevant information available
    - **Chemical stability:** No decomposition if used according to specifications
    - **Conditions to avoid:** No further relevant information available
<table>
<thead>
<tr>
<th>Incompatible materials:</th>
<th>No further relevant information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous decomposition products:</td>
<td>No dangerous decomposition products known</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION

#### Information:
- **Ingestion:** No adverse effects expected with unused material
- **Inhalation:** Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.
- **Eye:** Contact may cause mechanical irritation and possible injury.
- **Skin:** No adverse effects expected.
- **Sensitization:** No adverse effects expected.

#### Acute toxicity:
- Attapulgite-type clay: No toxicity data available

#### Corrosivity:
- This is not a corrosive product

#### Eye Contact:
- Contact may cause mechanical irritation

#### Respiratory/Skin sensitization:
- No sensitizing effects known

#### Germ cell mutagenicity:
- No specific data is available. This product is not expected to present a germ cell mutagenicity hazard

#### Carcinogen Status:
- No toxicity data available. The substance does not meet the criteria for carcinogen under Regulation (EC) No 1272/2008

#### Reproductive toxicity:
- No specific data is available. Not expected to affect reproduction or development.

#### Repeat Dose Toxicity:
- No toxicity data available. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains <0.1% respirable crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling, and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.

### 12. ECOLOGICAL INFORMATION

#### Toxicity:
- None known

#### Persistence/ degradability:
- No further relevant information available

#### Bioaccumulative potential:
- No further relevant information available

#### Mobility in soil:
- No further relevant information available

#### Other adverse effects:
- No further relevant information available

#### Results of PBT and vPvB assessment:
- PBT: Not applicable
- vPvB: Not applicable

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods:
- Waste treatment methods: Recommendation; Recycle or dispose with household trash.
- Uncleansed packaging: Recommendation; Disposal must be made according to official regulations.
14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number:</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper shipping name:</td>
<td>Not regulated under DOT</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Hazard class(es):</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group:</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special precautions:</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CERCLA/SUPERFUND</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA HAZARD CATEGORY (311/312)</td>
<td>Chronic Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA 313:</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSCA:</td>
<td>Components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS</td>
<td>Components of this product are listed on the EINECS Inventory or exempt from notification requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEC R&amp;S Phrases</td>
<td>Xn Harmful, R48/20 Harmful: Danger of serious damage to health by prolonged exposure by inhalation; S22 Do not breath dust; S38 In case of insufficient ventilation, wear suitable respirator equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JAPAN MITI:</td>
<td>Components of this product are existing chemical substances as defined in the Chemical Substances Control Law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AICS:</td>
<td>Components of this product are listed on the AICS Inventory or exempt from notification requirements.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Ratings:</th>
<th>Health – 1</th>
<th>Flammability – 0</th>
<th>Reactivity – 0</th>
</tr>
</thead>
</table>

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SDS preparation date: March 9, 2015 Replaces MSDS dated: April 26, 2012
Changes since last revision: New format to SDS
SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION
   Product Name: MycoApply® Micronized Endo
   Product Code: FMAMEN
   Product Use: Inoculant
   Supplier: Mycorrhizal Applications, LLC
   Address: 710 NW E Street, Grants Pass, OR 97526
   Phone Number: 866-476-7800 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
   Medical Emergency Phone Number: 888-271-4649 (PROSAR)
   Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION
   Classification:
   - Acute Oral: Category 4
   - Eye irritation: Category 2B
   Signal Word: Warning
   Hazard Symbols:
   - exclamation mark
   Prevention Statements:
   - Avoid breathing dust
   - Use outdoors or in a well-ventilated area
   Response Statements:
   - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
   Storage:
   - Keep container tightly closed.
   Disposal:
   - Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Concentration (w/w %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attapulgite-type clay</td>
<td>12174-11-7</td>
<td>90-100 %</td>
</tr>
<tr>
<td>Quartz (Respirable &lt;0.1%)</td>
<td>14808-60-7</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>Proprietary-Other Ingredients</td>
<td>Trade Secret</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
   If Inhaled: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
   If on Skin: Wash with soap and water. Then apply hand lotion. Exposure to skin may cause mild irritation and dry skin.
   If in Eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
   If Swallowed: If symptoms persist consult doctor.
   If Inhaled: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
5. **FIRE FIGHTING MEASURES**

- **Extinguishing Media:** Use media that is appropriate for surrounding fire.
- **Special Exposure Hazards:** None known
- **Special Protective Equipment / Procedures for Firefighters:** None known

6. **ACCIDENTAL RELEASE MEASURES**

- **Personal Precautions:** None known
- **Environmental Precautions:** None known
- **Containment / Clean-Up Methods:** Sweep up and collect for proper disposal

7. **HANDLING & STORAGE**

- **Handling:** Avoid breathing dust. Ensure good ventilation/exhaustion at the workplace.
- **Storage:** Store in a dry area. Avoid consistent temperature above 120 degrees Fahrenheit. Keep container tightly sealed.

8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

- **Occupational Exposure Limits:**
- **Engineering Controls:** For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.
- **Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.
- **Personal Protective Equipment:**
  - **Clothing:** None required for normal use.
  - **Eye Protection:** Safety glasses or goggles recommended
  - **Respiratory Protection:** For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.

9. **PHYSICAL & CHEMICAL PROPERTIES**

- **Appearance:** Pale
- **Upper/Lower flammability limits:** Not available
- **Odor:** Earthy nutty
- **Vapor pressure:** Not available
- **Odor threshold:** Not available
- **Vapor density: (air =1)** Not applicable
- **pH:** Not applicable
- **Specific Gravity: (H₂O = 1)** 2.2
- **Melting/Freezing point:** 1710°C / Not applicable
- **Solubility:** Insoluble
- **Boiling point:** 4046°F (2230°C)
- **Partition coefficient (n-octanol-water):** Not determined
- **Flash point:** Not applicable
- **Auto-ignition temperature:** Not applicable
- **Evaporation rate:** Not applicable
- **Decomposition temperature:** Not applicable
- **Flammability (solid, gas):** Not applicable
- **Viscosity:** Not applicable
10. **STABILITY & REACTIVITY**

- **Reactivity hazards:** No further relevant information available
- **Chemical stability:** No decomposition if used according to specifications
- **Conditions to avoid:** No further relevant information available
- **Incompatible materials:** No further relevant information available
- **Hazardous decomposition products:** No dangerous decomposition products known

11. **TOXICOLOGICAL INFORMATION**

- **Information:**
  - **Ingestion:** No adverse effects expected with unused material
  - **Inhalation:** Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.
  - **Eye:** Contact may cause mechanical irritation and possible injury.
  - **Skin:** No adverse effects expected.
  - **Sensitization:** No adverse effects expected.
  - **Medical Conditions Aggravated By Exposure:** None currently known.

- **Acute toxicity:** Attagulite-type clay: No toxicity data available
- **Corrosivity:** This is not a corrosive product
- **Eye**
- **Respiratory/Skin sensitization:** No sensitizing effects known
- **Germ cell mutagenicity:** No specific data is available. This product is not expected to present a germ cell mutagenicity hazard
- **Carcinogen Status**
- **Reproductive toxicity:** Attagulite-type clay: No specific data is available. Not expected to affect reproduction or development.
- **Repeat Dose Toxicity**

12. **ECOLOGICAL INFORMATION**

- **Toxicity:** None known
- **Persistence/ degradability:** No further relevant information available
- **Bioaccumulative potential:** No further relevant information available
- **Mobility in soil:** No further relevant information available
- **Other adverse effects:** No further relevant information available
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable
  - vPvB: Not applicable

13. **DISPOSAL CONSIDERATIONS**

- **Disposal methods:**
  - Waste treatment methods: Recommendation; Recycle or dispose with household trash
  - Uncleansed packaging: Recommendation; Disposal must be made according to official regulations.
14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN number:</th>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name:</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Hazard class(es):</td>
<td>Not regulated under DOT</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Packing group:</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special precautions:</td>
<td>None</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

| CERCLA/SUPERFUND       | None                       |
| SARA HAZARD CATEGORY (311/312) | Chronic Health            |
| SARA 313:              | None                       |
| TSCA:                  | Components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements |
| EINECS                 | Components of this product are listed on the EINECS Inventory or exempt from notification requirements |
| EEC R&S Phrases        | Xn Harmful, R48/20 Harmful: Danger of serious damage to health by prolonged exposure by inhalation; S22 Do not breath dust; S38 In case of insufficient ventilation, wear suitable respirator equipment |
| JAPAN MITI:            | Components of this product are existing chemical substances as defined in the Chemical Substances Control Law |
| AICS:                  | Components of this product are listed on the AICS Inventory or exempt from notification requirements. |

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Ratings:</th>
<th>Health – 1</th>
<th>Flammability – 0</th>
<th>Reactivity – 0</th>
</tr>
</thead>
</table>

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