



MycoApply® EndoMaxx® SC
Suspended Concentrate

is a concentrated liquid mycorrhizal inoculant containing 4 top performing endomycorrhizal fungi, formulated for use as a soil drench, transplant treatment, in-furrow spray, bare root treatment, and potato seed piece treatment.

CONTAINS NON-PLANT FOOD INGREDIENTS:
Soil Amending Guaranteed Analysis
0.25% Total Active Ingredients.

<i>Glomus intraradices</i>	(381 propagules/ml)
<i>Glomus mosseae</i>	(381 propagules/ml)
<i>Glomus aggregatum</i>	(381 propagules/ml)
<i>Glomus etunicatum</i>	(381 propagules/ml)

99.75% Total Inert Ingredients (Carrier)

“This Product is not a Plant Food”
Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.html>

STORAGE CONDITIONS: Product can be stored in a cool, dry area (less than 140°F) out of direct sunlight without loss of viability. Do not freeze.

WARNING: Wear protective clothing/eye protection/impervious gloves. Wash hands and face thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing fumes/mist/vapor/spray. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Dispose of contents/container in accordance with local/regional/national regulations.

GENERAL USE INSTRUCTIONS

MycoApply EndoMaxx SC is a liquid formulation that can be applied as: an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or by chemigation. This product can also be applied directly to plants grown in the greenhouse for transplanting purposes.

- MycoApply EndoMaxx SC can be used on newly seeded, transplanted or established crops. The goal is to make physical contact between the inoculum and the roots. Direct the application of MycoApply EndoMaxx SC near the living root or seed of the plant, where new roots will grow through it.
- The closer the proximity between the root and mycorrhizal propagules, the more quickly the plant will become colonized by mycorrhizae and the more quickly the mycelial network will form to provide benefits to the plant.
- MycoApply EndoMaxx SC is most effective when the host plant requires nutrients for optimal plant growth; excessively high levels of phosphorous fertilizer used at planting may increase the time required for MycoApply EndoMaxx SC to colonize the plant.
- MycoApply EndoMaxx SC is able to utilize both biologically available and unavailable forms of phosphorus for use by the host plant. Therefore, confirm the phosphorus (all forms) content of the soil with a soil analysis when making supplemental phosphorus applications.

GENERAL INFORMATION

MycoApply EndoMaxx SC is a liquid formulation that contains living propagules of multiple species of arbuscular mycorrhizal fungi that colonize the rhizosphere of plants in a symbiotic manner. The mycorrhizal fungi expand out beyond the plant roots or rhizosphere region of the soil surrounding the plant roots to acquire nutrients and water.

Arbuscular mycorrhizal fungi form symbiotic associations with roots of most agriculturally important crops¹. MycoApply EndoMaxx SC improves plant vigor by enhancing the root system's ability to efficiently absorb water and nutrients under variable environmental conditions throughout the entire crop cycle.

MycoApply EndoMaxx SC contains 45,000 propagules per fluid ounce of the following four mycorrhizal species: *Glomus intraradices*, *Glomus mosseae*, *Glomus aggregatum*, *Glomus etunicatum*.

¹ For additional crop recommendations, other than those listed in this label, consult your crop advisor or Valent Agricultural Specialist (1-800-6-VALENT).

COMPATABILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for MycoApply EndoMaxx SC with other agricultural products are limited. Do not tank-mix MycoApply EndoMaxx SC with other products unless compatibility has been verified. If considering tank-mixing MycoApply EndoMaxx SC with other products use the following compatibility jar test before mixing an entire tank: Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Always read and follow all label directions and precautions for each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix MycoApply EndoMaxx SC with any product that has a prohibition against tank-mixing. **For further information consult your Valent Agricultural Specialist.**

MIXING ORDER FOR TANK MIX PARTNERS BY FORMULATION TYPE

- 1) Carrier (water or liquid fertilizer)
- 2) Wettable granules (dry flowables)
- 3) Wettable powders
- 4) MycoApply EndoMaxx SC
- 5) Aqueous solutions
- 6) Emulsifiable concentrates
- 7) Adjuvants

APPLICATION PREPARATION

Application equipment must be clean and free of previous pesticide deposits before applying MycoApply EndoMaxx SC. Fill mixing tank ¼ to ½ full of water. Add MycoApply EndoMaxx SC directly to the mix tank. Mix thoroughly to fully disperse the product. Once dispersed and suspended, continued agitation is required (mechanical or hydraulic). Avoid storage of mixed solutions for periods greater than 24 hours. Re-suspension of the solution after storage is critical for even distribution and application.

DIRECTIONS FOR DRIP IRRIGATION AND CHEMIGATION

Fill the supply tank ¼ to ½ full of water. Add MycoApply EndoMaxx SC directly to the supply tank. Mix thoroughly to fully disperse the product. Once dispersed and suspended, fill the tank with the remaining amount of water necessary for the injection and continued agitation is required. Inject MycoApply EndoMaxx SC downstream of sand and/or screen filters smaller than 50 mesh. Apply during the middle third of the irrigation run, concluding the injection before the end of the irrigation run, and allowing clean water to flush the lines and move product into the root zone. (Do not exceed a concentration of 1 fluid ounce of MycoApply EndoMaxx SC per gallon of water in the injection tank.)

IMPORTANT: After mixing with water, shake or stir vigorously. Maintain continuous agitation in the mix tank during mixing and application to assure a uniform suspension. When spraying MycoApply EndoMaxx SC, use filters or screens no smaller than #50 mesh.

APPLICATION INSTRUCTIONS FOR CROP CATEGORIES

CROP	APPLICATIONS	PLANTING RATE (plants/acre)	USE RATE
Vegetable Transplants: • Leafy Vegetables (lettuce, celery, etc.) • Fruiting Vegetables (tomato, pepper, etc.) • Cucurbits (melons, pumpkin, squash, etc.)	Pre-Plant Tray Drench	<15,000	2-3 fl oz/acre
	OR	15,000-30,000	3-4 fl oz/acre
	At-Plant Transplant Water	30,000-45,000	4-5 fl oz/acre
	OR	>45,000	5-6 fl oz/acre
	Subsurface Drip Tape		

- When applying MycoApply® EndoMaxx SC as a transplant tray drench, it is important that:
 - Uniform distribution of drench is made to moist potting media.
 - Sufficient water volume is used, allowing movement of product into the root zone.
 - No more than 10% run through of solution occurs.
 - Application is made between seeding and 2nd true leaf stage for best results and maximum time for establishment.
- For at-plant transplant water applications, apply solution to the soil using hand-held, mechanical or motorized equipment. Maintain continuous agitation during application. Delivery of MycoApply EndoMaxx SC should be in such a manner that the treated water reaches the transplant roots or is applied below or to the side of the transplant so new root growth reaches the product.

CROP	APPLICATIONS	USE RATE
Seeded Vegetables: (carrots, onions, lettuce, beans, tomato, etc.)	In-Furrow Spray (at planting) OR Post-Plant Banded Spray OR Subsurface Drip Tape (post-plant)	2-3 fl oz/acre

- For in-furrow treatments, apply in a sufficient spray volume to disperse the propagules in the bottom of the furrow where seeds will fall. Mount spray nozzle so that spray is directed in the furrow just before seeds are dropped and covered.
- For post-plant banded spray applications, incorporate product using overhead irrigation or rainfall, within 72 hours of application. Applying irrigation prior to banded applications can improve movement of Mycorrhizal fungi into the soil.

CROP	APPLICATIONS	USE RATE
Onion Transplants	Bare Root Spray OR Pre- or At-Plant Banded Spray	2-3 fl oz/acre
<ul style="list-style-type: none"> Prior to applying MycoApply EndoMaxx SC as a pre-plant spray to onion roots, remove excess soil from roots. Completely spray roots to ensure thorough coverage. For banded spray applications, incorporate product using overhead irrigation or rainfall, within 72 hours of application. Applying irrigation prior to banded applications can improve movement of Mycorrhizal fungi into the soil. 		

CROP	APPLICATIONS	USE RATE												
Potato	Seed Piece Treatment OR In-Furrow Spray (at planting)	2-3 fl oz/acre												
<ul style="list-style-type: none"> For in -furrow treatments, the rate per broadcast acre should remain constant at 2-3 fl oz/acre. However, the rate per linear feet (i.e. 1,000 ft. of row) will vary, depending on row spacing. Use the chart below to determine the MycoApply EndoMaxx SC rate per 1,000 row feet. <table border="1"> <thead> <tr> <th>Row spacing</th> <th>30"</th> <th>32"</th> <th>34"</th> <th>36"</th> <th>38"</th> </tr> </thead> <tbody> <tr> <td>fl oz/1,000 row feet</td> <td>0.17</td> <td>0.19</td> <td>0.20</td> <td>0.21</td> <td>0.22</td> </tr> </tbody> </table> <ul style="list-style-type: none"> For potato seed piece treatment, apply 2-3 fl oz of product onto seed pieces needed to plant one acre. Apply using equipment that ensures uniform and thorough coverage of each seed piece. For in-furrow treatments, mount spray nozzle so that spray is directed in the furrow, onto the seed pieces, just before they are covered. Since MycoApply EndoMaxx SC is most effective when the host plant requires nutrients for optimal growth, excessively high levels of phosphorous fertilizer used at planting may increase the time needed for MycoApply EndoMaxx SC to colonize the plant. 			Row spacing	30"	32"	34"	36"	38"	fl oz/1,000 row feet	0.17	0.19	0.20	0.21	0.22
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CROP	APPLICATIONS	USE RATE
Strawberry & Cane Berries: (blackberry; loganberry; raspberry, black and red; wild raspberry)	Bare Root Spray OR At-Plant Banded Spray OR Post-Plant Drip Injection	3-4 fl oz/acre
<ul style="list-style-type: none"> Prior to applying MycoApply EndoMaxx SC as a pre-plant treatment to strawberry roots, wash transplants to remove excess soil. Completely immerse or spray roots to ensure thorough coverage. For at-plant drench applications, apply solution to the soil surface as a drench using hand-held, mechanical or motorized equipment. Maintain continuous agitation during application. Apply MycoApply EndoMaxx SC via drip injection following planting when plants are actively growing. <ul style="list-style-type: none"> See DIRECTIONS FOR DRIP IRRIGATION AND CHEMIGATION Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Inject downstream of sand and/or screen filters smaller than #50 mesh. Ensure the irrigation system is calibrated to uniformly distribute chemigation application to the crop root zone. Apply during the middle third of the irrigation run, concluding the injection before the end of the irrigation run, and allowing clean water to flush the lines and move product into the root zone. 		

CROP	APPLICATIONS	USE RATE
Sweet Potato	Seed Root (Slip) Treatment OR At-Plant Transplant Water	2-3 fl oz/acre
<ul style="list-style-type: none"> Prior to applying MycoApply EndoMaxx SC as a pre-plant treatment to sweet potato seed roots, wash slips to remove excess soil. Completely immerse seed roots for 1-2 minutes in a well agitated suspension to ensure thorough coverage. For at-plant drench applications, apply solution to the soil surface as a drench using hand-held, mechanical, or motorized equipment. Maintain continuous agitation during application. Applying irrigation prior to and post a drench application can improve movement of mycorrhizal fungi into the soil. 		

CROP	APPLICATIONS	USE RATE
Tobacco	Pre-Plant Tray Drench OR At-Plant Transplant Water	2-3 fl oz/acre
<ul style="list-style-type: none"> When applying MycoApply EndoMaxx SC as a transplant tray drench, it is important that: <ul style="list-style-type: none"> Uniform distribution of drench is made to moist potting media. Sufficient water volume is used, allowing movement of product into the root zone. No more than 10% run through of solution occurs. Application is made between seeding and 2nd true leaf stage for best results and maximum time for establishment. For at-plant transplant water applications, apply solution to the soil using hand-held, mechanical, or motorized equipment. Maintain continuous agitation during application. Delivery of MycoApply EndoMaxx SC should be in such a manner that the treated water reaches the transplant roots or is applied below or to the side of the transplant so the plant roots and mycorrhizal fungi can form the symbiotic relationship. 		

CROP	APPLICATIONS	USE RATE	RATE/1,000 PLANTS
Trees & Vines (New Plantings)	Bare Root Spray or Dip	Suggested dilution rate: 2.5 ounces mixed in 3 gallons of water. Spray or dip roots of plants prior to planting.	2.5 fl oz
	Container Drench	Determine drench volume by applying water to a single container to the point of run-through.	4 fl oz
	In-Field Drench (i.e. Tanking)	Apply the diluted mixture around the trunk of each tree. Use sufficient water volume to move product into the root zone, which may include a pre- and post-application irrigation.	5 fl oz
	Fan Jet/Micro-Sprinkler Injection	Apply 2-4 weeks after planting when plants are actively growing. See DIRECTIONS FOR DRIP IRRIGATION AND CHEMIGATION.	4 fl oz

CROP	APPLICATIONS	STAGE OF DEVELOPMENT	RATE/1000 PLANTS
Trees & Vines (Established)	In-Field Drench	1 year or less	5 fl oz
		2 to 4 years	7.5 fl oz
	Directed Spray (over root zone)	1 year or less	5 fl oz
		2 to 4 years	7.5 fl oz
		5 + years	20 fl oz
<ul style="list-style-type: none"> In-field drench: Apply diluted product around the trunk of each tree or vine during active growth. Use sufficient water volume to allow movement of product into the root zone. For directed spray and berm applications, incorporate product using overhead irrigation or rainfall, within 72 hours of application. For trees and vines grown with a cover crop between the rows, make an application of MycoApply EndoMaxx SC to the seed of the cover crop at the time of planting as a seed treatment in the hopper box. 			

CROP	APPLICATION	USE RATE
Agricultural Trees & Vines in Nursery Production (fruit or nut trees and vines)	Bare Root Spray OR Container Drench	80 fl oz Per 36,000 tree seedlings
<ul style="list-style-type: none"> • Use for tree seedling production (endomycorrhizal trees). • EndoMaxx SC can be applied as a bare root spray, or as a container drench. 		

CROP	APPLICATION	USE RATE
Corn (field corn, silage, sweet corn, popcorn)	In Furrow OR Sidedress	2 fl oz/acre