



AQUEOUS SUSPENSION SOIL TREATMENT

MYCONATE® AS is a water-based soil additive designed to stimulate the growth of vesicular-arbuscular mycorrhizae (VAM) on plant roots when applied by in-furrow spray, ground spray, or irrigation systems. VAM fungi form symbiotic associations with roots of approximately 80% of all plant species, including most agriculturally important crops. VAM fungi are known to have beneficial effects on plants.

NOT A PLANT FOOD PRODUCT. CONTAINS NON PLANT FOOD INGREDIENTS.

GUARANTEED ANALYSIS PLANT/SOIL AMENDING INGREDIENTS

Formononetin (4'-methoxy, 7-hydroxy isoflavone).....	50%
Inert Ingredients.....	50%
46.4988% Water	
2.4% Dispersant (Sodium diisopropyl naphthalene sulfonate)	
0.6% Dispersant (Disodium sulfate)	
0.5% Wetting agent (Sodium dioctyl sulfosuccinate)	
0.0009% Preservative (Methyl Isothiazolinones)	
0.0003% Preservative (2-Bromo-2-nitro-1,3-propanediol)	

USER SAFETY RECOMMENDATIONS:

Do not ingest product or inhale spray mist. Avoid contact with eyes, skin or mucous membranes. Ingesting or inhaling significant amounts of this product may cause reproductive health effects in humans and animals. Pregnant women and those seeking to become pregnant should avoid exposure. Wear rubber gloves, dust mask and eye protection when handling product. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid exposing livestock prior to or during breeding. Do not harvest treated crops and do not graze animals within 30 days of a foliar application.

STORAGE AND DISPOSAL:

Keep container tightly closed and store in a cool, dry location. Avoid extreme heat and prolonged exposure to sunlight. Extra or waste product can be dispersed in water and applied to the crop soil.

Do not dispose directly to surface water.

GENERAL USE GUIDELINES

Myconate® AS may be applied in-furrow at seeding time after dilution with water or a suitable carrier. In addition Myconate® AS, diluted in water, may be applied by broadcast or banded spray, or through an overhead irrigation system. In order for Myconate® AS to effectively stimulate colonization of VAM fungi on crop roots, the active ingredient must be present in the crop root zone early in the crop cycle. Placement of Myconate® AS into the root zone may be accomplished via in-furrow application during planting, side-dressing, pre-plant mechanical incorporation following application, or via pre- or post-planting water movement that results from rainfall or irrigation, within one week of application.

PROHIBITED APPLICATIONS

Myconate AS is not intended for foliar applications unless washed into the soil within one week of application. Do not apply aerially, or by airblast sprayer into the foliage of crops.

CAUTION KEEP OUT OF REACH OF CHILDREN

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-phc.com>.

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Covered by US Patents 5,002,603;
5,085,682; 5,691,275; 5,981,775;
5,125,955. Other patents pending.



**Density: 9.57 Lb/Gal (1.15 g/cc)
at 68°F (20°C)**

**Volume: 1 Gallon (3.785 Liters)
Net Wt: 9 Lb, 9.2 oz. (4.35 Kg)**

MYCONATE® AS APPLICATION INSTRUCTIONS

READ AND FOLLOW ALL LABEL INSTRUCTIONS WHEN HANDLING AND USING THIS PRODUCT. AGITATE GENTLY BEFORE USE TO RESUSPEND WITHOUT FOAMING.

COMPATIBILITY WITH OTHER PRODUCTS

If tank-mixing with other products, use a jar test to first determine physical compatibility. Dilute proportional amounts of the products to be mixed in a jar of water and agitate well. Add dry materials first, then flowables, and then emulsifiable concentrates last. After 5 minutes, check that there is no precipitation, settling, separation or other adverse reactions that might reduce treatment rate and uniformity. Do not mix this product with any other product containing a label prohibition against such mixing. When tank-mixing Myconate® AS with any other approved product, always read and follow all use directions, restrictions, and precautions of both Myconate® AS and the tank mix partner(s). The resulting tank mix must be in accordance with the most restrictive label limitations and precautions.

IN-FURROW APPLICATIONS AT PLANTING AND SIDE-DRESSING

Follow the rates shown in the accompanying chart. Use equipment and a volume of water or other carrier capable of placing the specified rate in the root zone of the crop.

IRRIGATION (Overhead)

Apply at a rate of 2.5 fl oz/A with sufficient water volume to move the product

into the root zone. Myconate® may be introduced through a dripper or an injection pump following gentle agitation to ensure suspension. Irrigation systems used with Myconate® AS must be equipped with an effective back-flow preventer to protect the water source from the possibility of contamination.

BROADCAST SPRAYS

When mixing Myconate® AS in a spray tank, fill one-half of the tank with water, provide gentle agitation, and add the required amount of Myconate® AS. If tank mixing (having complied with the Compatibility Guidelines above) continue agitation and add other materials to the tank. Fill the tank with the remaining amount of water and maintain agitation while in transit and while making applications. Apply at a rate of 2.5 fl oz per broadcast acre. Incorporate into the root zone within one week of application, using rainfall or irrigation or tillage.

BANDED APPLICATIONS

The broadcast rate per acre may be reduced in proportion with the band width as a percent of the total row spacing, as long as the treated band width is at least 50% of the total distance between crop rows, and as long as the crop row is placed in such a manner that the crop row resides directly in the middle of the treated band.

PRE-PLANT APPLICATIONS ON TRANSPLANTED CROPS

For crops that are to be transplanted, apply by spray or dipping, 2.5 fl.oz. of Myconate® AS, diluted in water, to the number of transplants to be planted on each acre. Before the foliage has dried, follow the application with sufficient water to move the product off the foliage and into the root zone of the transplant plugs. Transplant within a week of application.

APPLICATION		CROPS	USE RATE
In-Furrow Spray (at planting) OR Side-Dressing	Row crops	Corn (grain, silage, sweet corn or popcorn) Legumes (field beans, peanut, soybean) Oil and Seed Crops (sunflower) Sorghum	1.25 fl oz /A
	Cereals and Forage	Cereal Grains (barley, wheat, dryland rice) Alfalfa	2 fl oz /A
	Vegetables	Low-density plantings: tomatoes, peppers, legumes and cucurbits (excluding pickles)	1.25 fl oz /A
		High-density plantings: carrots, lettuce, onion, garlic, leeks and celery	2.25 fl oz /A
Potatoes	Irish	1 fl oz /A	
Irrigation (Overhead)	Just before planting, or during the active growing season.	All crops listed above plus: perennial crops such as fruits, nuts, vines and berries	2.5 fl oz /A apply with sufficient water to wash product into root zone
Broadcast Spray and Banded Applications	Emerged crops and established transplants	All crops listed above plus: perennial crops such as fruits, nuts, vines and berries	2.5 fl oz /A See application instructions
Pre-Plant Application	Transplant crops	Transplants of any crops listed above	2.5 fl oz /A See application instructions

USE ADVISORY: Myconate® AS is ineffective on non-mycorrhizal crops such as *Brassica* (mustards, beet, cabbage and other Cole crops), ectomycorrhizal nuts, such as pecan, ericoid crops such as blueberry, or when used on any seed or crop planted into fumigated soil.