

NOW APPROVED FOR CITRUS USE IN  
NEVADA, TEXAS, ARIZONA, FLORIDA, GEORGIA



## UNDERSTANDING RESISTANCE MANAGEMENT IN CITRUS.

Mycoshield® fungicide contains calcium oxytetracycline. Oxytetracycline is an active ingredient with published data supporting significant activity against the bacteria that causes Huanglongbing (HLB). Mycoshield is EPA approved for use on citrus crops in Nevada, Texas, Arizona, Florida and Georgia.

### COMPETITIVE ADVANTAGES

- For use on citrus crops for suppression of Huanglongbing (HLB) and citrus canker.
- Mycoshield may be used on citrus crops in Nevada, Texas, Arizona, Florida and Georgia only.
- A supplemental label for the use on citrus is available until December 31, 2020. Find the new label and learn more about Mycoshield at [nufarm.com/uscrop/mycoshield](http://nufarm.com/uscrop/mycoshield).

### AT-A-GLANCE INFO

EPA REG. NO.	55146-97
ACTIVE INGR.	calcium oxytetracycline (17.7%) (equivalent to 17% oxytetracycline)
FORMULATION	wettable powder
CHEM. FAMILY	tetracycline antibiotic
FRAC NO.	41
MODE OF ACT	inhibition of protein synthesis
REI	12 hours
SIGNAL WORD	warning
RES. USE	no
PACKAGE SIZE	2 lb bag (10 per case)

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Agri-Mycin® 50 | Grapple  | Phostrol®

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## UNDERSTANDING RESISTANCE MANAGEMENT IN CITRUS.

### KEY USES

Australian desert lime, Australian finger lime, Australian round lime, Brown River finger lime, calamondin, citron, citrus hybrids, grapefruit, Japanese summer grapefruit, kumquat, lemon, lime, Mediterranean mandarin, mount white lime, New Guinea wild lime, orange, sour, orange, sweet, pummelo, Russell River lime, satsuma mandarin, sweet lime, tachibana orange, Tahiti lime, tangelo, tangerine (mandarin), tangor, trifoliate orange, uniu fruit, cultivars, varieties, and/or hybrids of these

### KEY DISEASES CONTROLLED

(See product label for complete list)  
Suppression of Huanglongbing disease and citrus canker

### APPLICATION RESTRICTIONS

Not to be used for medical, veterinary, or human purposes.

Not for residential use.

Animal grazing in treated areas is prohibited. The public must be notified by posting restriction signs along the perimeter of the treatment area.

Do not apply oxytetracycline in orchards in which the soil has been fertilized with animal waste/manure or human biosolids.

When alternatives are available, do not apply more than two consecutive applications before alternating with another fungicide/bactericide of a different mode of action.

Do not apply Mycoshield by aerial application.

Do not apply Mycoshield through any type of irrigation system, including chemigation.

Use only the specified and full-strength application rates.

### USE SUMMARY

FOR THE USE OF MYCOSHIELD® FOR SUPPRESSION OF HUANGLONGBING (HLB) AND CITRUS CANKER

**HLB FOLIAR APPLICATION:** Apply as a foliar spray using sufficient carrier volume to ensure complete coverage. Use with spray adjuvant, spreader sticking agent, or horticulture oil. Make the first application at initiation of spring flush to suppress HLB and symptoms. Make the second application mid-summer (not less than 21 days after the first application). Make the third application in late summer to reduce the incidence of HLB-induced fruit drop and to further suppress HLB titer and disease symptoms (not less than 21 days since second treatment).

**CITRUS CANKER FOLIAR APPLICATION:** Apply as a foliar spray using sufficient carrier volume to ensure complete coverage. Use with spray adjuvant, spreader sticking agent, or horticulture oil. Make the first application when spring flush is approximately 75% expanded to protect new growth from canker infection. Make the second application in summer when weather conditions warrant during periods of high citrus canker risk (not less than 21 days after first application). Make the third application in late summer to reduce the incidence of canker-induced fruit drop (not less than 21 days after second application).

**TO DELAY ANTIBIOTIC/FUNGICIDE/BACTERICIDE RESISTANCE, TAKE ONE OR MORE OF THE FOLLOWING STEPS:**

Use only the specified and full-strength application rates.

The mode of action for oxytetracycline is the inhibition of protein synthesis. Mycoshield should be used to treat or prevent infections that are proven or strongly suspected to be caused by the indicated target bacteria. To reduce likelihood of bacteria developing resistance to oxytetracycline, follow the crop specific resistance management and use direction information on the label. Use of Mycoshield should conform to resistance management practices/strategies established for the crop and use area. Consult your local extension/crop consultant or state agricultural authority if reduced efficacy is suspected.

Adopt an integrated disease management program that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.

Where possible, make use of predictive disease models to effectively time applications.

Avoid the consecutive use of Mycoshield or other target site of action Group 41 products that have a similar target site of action, on the same pathogens.

Use tank-mixtures or premixes with products from different target site of action Groups as long as the involved products are all registered for the same use and are both effective at the tank mix or prepack rate on the pathogen(s) of concern. Do not use any product that has a prohibition on tank mixing and follow the more restrictive use directions.

When feasible, Mycoshield should be alternated with a comparable bactericide with a different mode of action.

Base use on a comprehensive IPM program.

Monitor treated bacterial/fungal populations for loss of field efficacy.

Contact your local extension specialist, certified crop advisors, and/or manufacturer for fungicide/bactericide resistance management and/or IPM recommendations for specific crops and resistant pathogens.

See product label for complete directions for use.



[nufarm.com/uscrop](http://nufarm.com/uscrop)

Please visit [www.nufarm.com/uscrop](http://www.nufarm.com/uscrop) to download a full label.

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