

For use to control several postharvest diseases on pome fruit, stone fruit and cherries.

Active Ingredient:

Natamycin*	10.34%
Other Ingredients:	89.66%
Total:	100.00%

^{*}CAS No. 7681-93-8

CAUTIONKEEP OUT OF REACH OF CHILDREN

See side/back panel for precautionary statements

First Aid

If swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told by a poison control center or doctor.
- · Do not give anything by mouth to an unconscious person.

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER

Medical Emergency Phone Number 888-271-4649 (PROSAR)
Transportation Emergency Phone Number 800-424-9300 (CHEMTREC)

EPA Registration Number: 87485-2-64864

EPA Est. No.: 87485-FRA-00I

Net Content: 2.64 gallons

Distributed by:



^{*}Contains 0.93 lbs Natamycin per gallon.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS-CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Mixers, Loaders, Applicators and all others handlers must wear:

- · Protective eyewear
- Long sleeved shirt
- Long pants
- Socks plus shoes
- Water proof gloves

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and not water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer system without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may in the area during application. For any requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

General Information

BioSpectra 100SC is a stable aqueous suspension of Natamycin crystals, a natural fermentation product of *Streptomyces natalensis*. Natamycin is classified as a macrolide polyene antifungal compound and has a unique mode of action binding to ergosterol which is present in the cell membranes of yeasts and fungi preventing germination of fungal spores and inhibiting beginning growth of hypha. Natamycin has no effect against other types of microorganism or against fungal mycelium once growth begins.

Fungicide Resistance Management

Use of BioSpectra 100SC should be integrated into an overall disease management program within each packinghouse. Fungal pathways can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of postharvest resistance management strategies should be practiced. These may include rotating and/or tank mixing with product having different modes of action. Responsible resistance management practices are necessary to ensure the long-term effectiveness for decay control.

Mixing Instructions

Fill tank with half of the required amount of water or water wax and start mechanical agitation. Add the required amount of BioSpectra 100SC and then add the remaining volume of water or water wax. Maintain agitation after mixing and do not allow treating solution to stand overnight or for prolonged periods. For in-line injection systems better distribution will be achieved by injecting a larger volume of a more dilute solution per unit of time.

The physical compatibility of BioSpectra 100SC with all tank mix partners and wax types has not been fully investigated. This product cannot be mixed with any product containing a label prohibition against such mixing. Follow the more restrictive labeling requirements of any tank mix partner. No label dosage rates for the individual products may be exceeded.

Prior to tank mixing with BioSpectra 100SC, conduct a jar test with the volumes and rates typically used for postharvest disease control. Add proportionate amounts of the products to a small container of water or water wax in the following order: Wettable powders and water-dispersible granules first, followed by liquid flowables, and emulsifiable concentrates last. After thorough mixing, let stand for at least 15 minutes. Separation, globules, sludge, flakes or other precipitates are indicative of physical incompatibility. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

THE CROP SAFETY OF ALL POTENTIAL PESTICIDE TANK MIXES WITH BIOSPECTRA 100SC INCLUDING ANTI-SCALD AGENTS AND WAXES, HAS NOT BEEN TESTED ON ALL CROPS AND VARIETIES, BEFORE APPLYING ANY TANK MIXTURE, CONFIRM SAFETY TO THE TARGET CROP BEFORE USE.

Crop Use Directions

POME FRUIT: Apple (Malus domestica), Crabapple (Malus spp.), Loquat (Eriobotrya japonica), Mayhaw (Crataegus azarolus), Pear (Pyrus communis), Oriental pear (Pyrus spp.), Quince (Chaeonomeles spp.) and cultivars, varieties and/or hybrids of these.

Use BioSpectra 100SC as a postharvest dip, drench, flood, or spray for the control of certain postharvest fruit rots caused by:

- Blue mold (Penicillium expansum.)
- Gray mold (Botrytis cinerea)
- Mucor rot (Mucor piriformis)
- Sphaeropsis rot (Sphaeropsis pyriputrescens)
- Phacidiopycnis rot (Phacidiopycnis piri)
- Speck rot (*Phacidiopycnis washingtonensis*)

Application Method	Disease	Rate fl.oz	Directions	
Bin/Truck Drench or In-Line Dip/ Drench or Flooders	Blue mold Gray mold Mucor rot Spaeropsis rot Phacidiopycnis	57-114 fl. oz./100 gallons	 Ensure proper coverage of fruit. Mix 57-114 fl. oz. in 100 gallons of water, wax/ oil emulsion, or aqueous dilution of wax oil/ emulsion For in-line dip or drench applications, treat fruits for 10 seconds and allow the fruit to drain. 	
In-line Aqueous or Fruit Coating Spray Application	Speck rot	Speck rot	57-114 fl. oz./100 gallons	 Ensure proper coverage of fruit. Mix the fungicide solution in appropriate water, wax/oil emulsion, or aqueous dilution of wax oil/emulsion. Use T-jet, CDA or similar application system.

STONE FRUIT: Apricot (Prunus armeniaca), Nectarine (Prunus persica), Peach (Prunus persica), Plum, Chickasaw (Prunus agustifolia); Plum, Damson (Prunus domestica spp. insititia); Plum, Japanese (Prunus salicina); Plumcot (Prunus armeniaca x P. domestica); Prune (fresh)(Prunus domestica, Prunus spp.); as well as all other cultivars and hybrids of these.

Use BioSpectra 100SC as a postharvest dip, drench, flood, or spray for the control of certain postharvest fruit rots caused by:

- Brown rot (Monilinia spp.)
- Gray mold (Botrytis cinerea)
- Sour rot (Geotricum spp.)
- Rhizopus rot (Rhizopus spp.)

Application Method	Disease	Rate fl.oz	Directions
In-Line Dip/drench	Brown rot Gray mold Sour rot Rhizopus rot 28-114 fl. oz./100 gallons 28-114 fl. oz. / 200,000 lbs. of fruit	57-114 fl. oz./100 gallons	Ensure proper coverage of fruit. Mix 57-114 fl. oz. in 100 gallons of water, wax/ oil emulsion, or aqueous dilution of wax/oil
·		emulsion. • Dip for 10 seconds and allow the fruit to drain.	
In-line Aqueous or Fruit Coating Spray Application			Ensure proper coverage of fruit. Mix the fungicide solution in appropriate water, wax/oil emulsion, or aqueous dilution of wax oil/emulsion. Use T-jet, CDA or similar application system.

CHERRIES: Cherry, sweet (Prunus avium): Cherry, tart (Prunus cerasis); and all other cultivars and hybrids of these.

Use BioSpectra 100SC as a post-harvest dip. drench, flood, or spray for the control of certain postharvest fruit rots caused by:

- Brown rot (Monilinia spp.)
- Gray mold (Botrytis cinerea)

Application Method	Disease	Rate fl.oz	Directions
· '	Brown rot Gray mold	28-114 fl. oz./ 50,000 lbs of fruit	 Ensure proper coverage of fruit. Mix 28-114 fl. oz. in 100 gallons of water, wax/emulsion, or aqueous dilution of wax/oil emulsion. Use flooder, T-jet or similar application system

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in original container only in a cool, dry, dark place.

Pesticide Disposal: To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drop. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drop. Repeat this procedure two more times. Offer for recycling if available or dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

NOTICE TO BUYER

IMPORTANT: Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.