



FOR ORGANIC PRODUCTION

## 2(ee) Recommendation

Use information in accordance with Section 2(ee) of FIFRA

### Bio-Tam 2.0

EPA Reg. No. 80289-9

For use on grapes for control of vine pruning diseases (Esca) in the State of Oregon and Washington.

This recommendation is made as permitted under FIFRA Section 2(ee) and has not been submitted to or approved by EPA.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product inconsistent with its labeling.

Do not apply this product in any way that will contact workers or other persons; either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe; consult the agency responsible for pesticide regulation. Always read this FIFRA 2(ee) bulletin and the entire label on the product container before using this product.

### Product Information

**Bio-Tam 2.0** is recommended for control of Grape Vine Pruning Diseases in grapes in the State of Oregon and Washington.

CROP	TARGET DISEASE	USE RATE AND APPLICATION INSTRUCTIONS*
Grapes	vine diseases following pruning (Esca- <i>Phaeomoniella aleophilum</i> & <i>P. chlamydospora</i> ,)	Apply as a directed spray within 24 hours of pruning. Make a suspension containing 2 lb <b>Bio-Tam 2.0</b> / 100 gallons of water. Apply at 1 lb per acre in 25 to 50 gallons of water ensuring adequate coverage. Apply <b>Bio-Tam 2.0</b> by broadcast application.

#### \*Additional detailed use directions

Apply **Bio-Tam 2.0** at 1 pound per acre using a final spray volume of 25 to 50 gallons water per acre to protect against grapevine pruning diseases caused by Esca.

Apply **Bio-Tam 2.0** within 24 hours of pruning. Regardless of spray volume, it is recommended that a spray dye be used during the application followed by visual inspection to verify thorough coverage of the pruning cuts and susceptible tissue. A second application of **Bio-Tam 2.0** is recommended approximately 14 days later when pruning high risk vineyards (vineyards with a history of grapevine pruning disease, new vines replanted over a highly infested area, or where high disease pressure from surrounding area is present) or if rainfall or high humidity persist resulting in environmental conditions favorable for disease development.

If double pruning of the vineyard is being performed, treatment does not need to be performed after the first, non-selective pruning pass if environmental conditions do not favor infection and disease development into tissue beyond where the final pruning cuts will occur. Under this scenario, apply **Bio-Tam 2.0** within 24 hours of making the second pruning cuts. The second application of **Bio-Tam 2.0** should be applied 14 days after the first application when rainfall and high humidity favor infection and disease development. If the risk of infection and rapid disease development is high, resulting in development of disease into tissue past where the second pruning cuts will be made, **Bio-Tam 2.0** should be applied after the first non-selective pruning cuts followed by a second application after the second and final pruning cuts are made. Again, the use of a spray dye is recommended to ensure thorough coverage of all cut surfaces.

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## PRECAUTIONS

- Do not apply by aircraft.
- Apply **Bio-Tam 2.0** when the soil temperature is at least 50°F (10°C).
- Apply **Bio-Tam 2.0** to moist soil or growth media, but not to saturated or waterlogged soil. Soil or growth media must remain moist after application of **Bio-Tam 2.0** to provide adequate control of soilborne fungal diseases listed on this label.
- **Bio-Tam 2.0** may be applied to sterilized or fumigated soil, but must be applied after the sterilizing agent or fumigant has dissipated.
- **Bio-Tam 2.0** has no curative effect and therefore is not effective against plants infected with disease at the time of application.
- In case of applications on or to dry soils, pre-irrigate until soil is moist. Then irrigate again immediately after application.
- **Bio-Tam 2.0** product life is approximately 15 months when stored as directed under the **Storage and Disposal** section of the product label.
- **Bio-Tam 2.0** is not compatible with the following fungicides: imazalil, dichloran, mancozeb, propiconazole, tebuconazole, thiram, and triflumizole. Do not tank mix with, or apply **Bio-Tam 2.0** within 3 days before or after use of these products.
- Prepare a suspension, combine 1 pound of **Bio-Tam 2.0** for every 1.25 gallons of water, and mix from time to time in order to promote the germination of conidia and obtain faster soil colonization.

## BROADCAST APPLICATIONS

- For broadcast applications, apply **Bio-Tam 2.0** as a spray at a minimum volume of 10 gallons of water per acre prior to or at planting. Thorough and uniform coverage of the soil surface is necessary. Immediate incorporation of the **Bio-Tam 2.0** is necessary either by watering in using sufficient water to wet the upper 1" of soil or using light cultivation to incorporate the treatment into the seeding or rooting zone.
- Use higher application rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease development, if disease pressure is high, or if minimum/low till programs are in place.

## IMPORTANT NOTICE

**Follow all applicable directions, restrictions and precautions.**

This bulletin contains supplemental instructions for use of the referenced **Bio-Tam 2.0** product. Follow these instructions carefully. This bulletin must be in the possession of the user at the time of application.

Read the entire label before using this product, including the "LIMITATION OF WARRANTY AND LIABILITY" in the label booklet for **Bio-Tam 2.0** before using.

**Bio-Tam** is a registered trademark of Isagro USA.

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