U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511M)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

| EPA Reg. Number: | Date of Issuance: |
|---|---|
| 2375-5 | 9/27/2024 |

NOTICE OF PESTICIDE:
_X_ Registration
___ Reregistration
(under FIFRA, as amended)

**Term of Issuance:**
Unconditional

**Name of Pesticide Product:**
Kansas 3 SC

**Name and Address of Registrant (include ZIP Code):**

Chr. Hansen, Inc.
9015 W. Maple St.
Milwaukee, WI 53214

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency. In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

**Signature of Approving Official:**

Cody Kendrick

Cody Kendrick, Senior Regulatory Advisor
Microbial Pesticides Branch
Biopesticides and Pollution Prevention Division (7511M)
Office of Pesticide Programs

**Date:**

9/27/2024

2. If, following consultation with the United States Fish and Wildlife Service, the Service identifies additional mitigation measures are necessary to prevent adverse effects to any listed species or their designated critical habitat, the EPA will notify Chr. Hansen, Inc. in writing within 45 calendar days of completion of any such consultation of any necessary required changes. Pursuant to this registration term, within 30 calendar days of receiving the EPA's notice, Chr. Hansen, Inc. must submit an amendment application incorporating any required changes, included amended labels. Alternatively, Chr. Hansen, Inc. must submit a request for voluntary cancellation of the product. If this term of registration is not met, the EPA may cancel the registration under an expedited process under FIFRA 6(e).
3. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.
4. Make the following labeling change before you release this product for shipment:
    - Revise the EPA Registration Number to read, "EPA Reg. No. 2375-5."
5. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 05/30/2024

If you have any questions, please contact Hannah Dean via email at dean.hannah@epa.gov.

Sincerely,

Cody Kendrick

Cody Kendrick, Senior Regulatory Advisor
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

Enclosure

# KANSAS 3 SC

Suspension Concentrate MASTER LABEL

Sub-Label A: Seed Treatment Use

Sub-Label B: Soil Applied Use

Sub-Label C: Modified Soil Applied Use

ACCEPTED
Sep 27, 2024
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2375-5

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A suspension concentrate biological fungicide/nematicide for seed treatment and soil-applied use for early season protection against labeled fungal diseases and soil nematodes.

**EPA Reg. No. 2375-L** **EPA Est. No. 2375-xx-xxxxx**

| **Active Ingredients:** | **By Wt.** |
|---|---|
| *Bacillus subtilis* strain CH4000* | 3.33% |
| *Bacillus paralicheniformis* strain CH0273* | 3.33% |
| *Bacillus paralicheniformis* strain CH2970* | 3.33% |
| **Other Ingredients** | 90.01% |
| **Total** | **100.00%** |

*Contains a minimum of 1.67 X $10^{10}$ colony forming units (CFU) of each active ingredient per mLof product.

## KEEP OUT OF REACH OF CHILDREN

**See other panels for additional precautionary information.**

**Not for sale or use after [Date stamped/placed on labeling will be 6 months after the date of manufacture]**

**Net Contents: xxxxx**

**Sold By:**
**Chr. Hansen**
**9015 W Maple St.**
**Milwaukee, WI 53214**

**Batch/Lot code: _____**
**[*For nonrefillable containers only. Will be located on this label or on the physical container.*]**

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Note to Reviewer: Language within brackets is optional label language. Kansas 3 SC Reg. No. 2375-L Master Label – dated September 20, 2024

# KANSAS 3 SC

Suspension Concentrate

LABEL Sub-Label A

Seed Treatment Use

A SC biological fungicide/nematicide for seed treatment use for early season protection against labeled fungal diseases and soil nematodes.

**EPA Reg. No. 2375-L** **EPA Est. No. 2375-xx-xxxxx**

| **Active Ingredients:** | **By Wt.** |
|---|---|
| *Bacillus subtilis* strain CH4000* | 3.33% |
| *Bacillus paralicheniformis* strain CH0273* | 3.33% |
| *Bacillus paralicheniformis* strain CH2970* | 3.33% |
| **Other Ingredients** | 90.01% |
| **Total** | **100.00%** |

*Contains a minimum of 1.67 X $10^{10}$ colony forming units (CFU) of each active ingredient per mL of product.

## KEEP OUT OF REACH OF CHILDREN

**Not for sale or use after [Date stamped/placed on labeling will be 6 months after the date of manufacture]**

**Net Contents: xxxxxx**

**Sold By:**
**Chr. Hansen**
**9015 W Maple St.**
**Milwaukee, WI 53214**

**Batch/Lot code: _____**
**[*For nonrefillable containers only. Will be located on this label or on the physical container.*]**

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time (NPIC Website: www.npic.orst.edu).In event of a medical emergency, call your local poison control center at 1-800-222-1222.

# PRECAUTIONARY STATEMENTS

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- protective eyewear
- long-sleeved shirt
- long pants
- shoes plus socks
- waterproof gloves

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls**

When handlers use closed systems, or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607 (d) and (e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

**User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

**For container sizes <5 gallons**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**For container sizes ≥5 gallons**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. 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 systems 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.**

**Read entire label before using this product.**

Do not apply this product in a 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 State or Tribal agency responsible for pesticide regulation.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

**Exception**: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is:
-Protective eyewear
-Coveralls
-Waterproof gloves
-Shoes plus socks

**Non-Agricultural Use Requirements**
The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treatment area until seeds have dried or been packaged.

**Product Information**
KANSAS 3 SC is a biofungicide and bionematicide seed treatment suspension concentrate formulation that provides suppression and control of labeled fungal diseases and nematodes in a variety of horticultural and broadacre crops for any and all seed practices including farm, greenhouse, nursery, or any other seed development and application processes. Seed must be sound and well-cured before treatment.

**Seed Treatment Equipment**
KANSAS 3 SC may be used both for commercial and for on-farm application. KANSAS 3 SC can be applied with mechanical, slurry, or mist-type seed treating equipment, as long as the equipment can be calibrated to accurately and uniformly apply the product to seed without undue mechanical damage to the seed. Uniform application to seed is important for all seed treatment products.

**Application Instructions**
Seed must be sound and well-cured before treatment. Refer to the COMPATIBILITY AND TANK MIXING INSTRUCTIONS below and follow the crop-specific application rates below.

COMPATIBILITY AND TANK MIXING INSTRUCTIONS

COMPATIBILITY
KANSAS 3 SC is physically compatible with many commonly used fungicides, herbicides, insecticides, and(or) nutrient products. However, the compatibility of KANSAS 3 SC with all potential tank-mix partners has not been fully investigated. If tank mixing with other products is desirable, conduct a jar test with the volumes and rates typically used in labeled applications. Using a small container of water, add the proportionate amounts of the products in the following order: wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

TANK MIXING INSTRUCTIONS

When tank-mixing KANSAS 3 SC with other registered pesticides and(or) other products, always read and follow all use directions, restrictions, and precautions of both KANSAS 3 SC and the tank-mix partner(s). It is the pesticide user's responsibility to ensure that all tank-mix products are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. DO NOT exceed label dosage rates.

All applications of KANSAS 3 SC involve the following general tank mixing procedures. Begin with clean supply, mixing and application equipment. Add one-half of the required amount of non-chlorinated water to the supply/mixing tank and start agitation. Dissolve the needed amount of KANSAS 3 SC into a small volume of water to make a pre-mix slurry. Add needed amounts of products to the mix tank in the following order: water conditioners, water soluble packages (wait for them to completely dissolve), wettable powders and water-dispersible granular products, followed by liquids, including, liquid slurries (add KANSAS 3 SC pre-mix slurry here), flowables, suspension concentrates, emulsifiable concentrates, with surfactants and(or) adjuvants added last. After adding the required quantity of KANSAS 3 SC and other products to the mix tank, complete filling with water to the required final volume and maintain agitation throughout application. DO NOT allow tank mixture to remain in the tank overnight. DO NOT allow tank mixture to sit for long periods during the day without agitation. If non-chlorinated water is not available, DO NOT let KANSAS 3 SC remain in chlorinated water for long periods of time as it may have detrimental effect on the bacterial endospores.

The appropriate volume of slurry for seed treatment depends on crop, temperature, humidity, type of equipment, and other factors and must be adjusted per normal treating practices for the circumstances. Contact your local supplier or distributor representative for additional specifications for slurry volumes and questions on any tank mixes or restrictions.

Recalibrate equipment to compensate for the required slurry rate to ensure all products are applied at the correct application rate.

**NOTE:** This product does not contain dye and is not covered by an appropriate tolerance, tolerance exemption, or other clearance under the Federal Food, Drug and Cosmetic Act. To comply with 40 CFR 153.155, therefore, all seed treated commercially with this product must be colored with an EPA-approved dye or colorant of a suitable color to prevent accidental use as food for man or feed for animals.

**SEED BAG LABEL REQUIREMENTS**

The Federal Seed Act requires that bags containing seeds treated with this product shall be labeled with the following information:

- This seed has been treated with *Bacillus subtilis* strain CH4000 and *Bacillus paralicheniformis* strains CH0273 and *Bacillus paralicheniformis* strain CH2970
- Do not use for feed, food or oil purposes. Store away from feed and food stuffs.

User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

Do not use KANSAS 3 SC in combination with other seed treatment products unless compatibility has been verified. Read and carefully follow all label directions of each product used in the treating mixture. When using combinations of products, the most restrictive of label limitations and precautions must be followed.

## Application Rates, Crops, and Pests

### Application Rates

KANSAS 3 SC may be applied as a seed treatment following the product rates described below according to the specific crop directions. Use the lower application rate for light infestations and the higher labeled rate for heavy infestations.

## Specific Crop Directions

### Crop Rotation Restrictions

There are no crop rotation restrictions. Any crop can be rotated at any time after application of KANSAS 3 SC

| **Crop Group 18 -** | Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Group: Alfalfa, Clover, and Forages | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.6 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group: Artichoke | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 5 -** | *Brassica* (Cole) Leafy Vegetables Group:<br>Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi, and other *brassica* crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 15 -** | Cereal Grains Group: (Exclude Corn)<br>Barley, Buckwheat, Millet, Oat, Pearl Millet, Proso Millet, Rice**, Rye, Sorghum, Teosinte, Triticale, Wheat, and other cereal grain crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California
**Do not apply to flooded fields

| **Crop Group 15 -** | Cereal Grains Group:<br>Corn (Field corn, Popcorn, Sweet corn, and Corn Grown for Seed) | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 20 -** | Oilseed Group:<br>Cottonseed | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Rotylenchulus reniformis*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 9 -** | Cucurbit Vegetables Group:<br>Chayote (fruit), Chinese wax gourd (Chinese preserving melon), Citron melon, Cucumber, Cantaloupe, Edible Gourd (such as Chinese Okra, Cucuzza, Hechima, and Hyotan), Gherkin, Melon, *Momordica* spp. (such as Balsam apple, Balsam pear, Bitter melon, and Cucumber), Muskmelon, Pumpkin, Summer and Winter Squash (such as Acorn, Butternut, Calabaza, Crookneck, Hubbard, Scallop, Spaghetti, and Zucchini), Squash, Watermelon, Chinese Watermelon, and other cucurbit crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 8 -** | Fruiting Vegetables Group:<br>African eggplant, Bell pepper, Bush tomato, Cocona, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Groundberry, Martynia, Naranjilla, Nonbell pepper, Okra, Pea eggplant, Pepino, Roselle, Scarlet eggplant, Sunberry, Tomatillo, and Tomato | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 4 -** | Leafy Vegetables (Except *Brassica* Vegetables) Group:<br>Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables crops including those grown for seed production | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried): (Exclude Lentils and Soybeans)<br>Beans, Snap beans, Garbanzo beans, Lima beans, Peas, Chick peas, Dried bean and pea (*Lupinus* spp., *Phaseolus* spp., *Vigna* spp., and *Pisum* spp.), and other legume vegetable crops including those grown for seed production | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Lentils | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 20 -** | Oilseed Group: (Excludes Cottonseed, Peanut, and Soybeans)<br>Canola, Castor, Flax, Palm, Olive, Rapeseed, Safflower, Sesame, Sunflower, and other oil seed crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop -** | Peanut | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Belonolaimus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Potato | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group: (Exclude Potato, Sugar Beet, and Artichoke)<br>Arracacha, Arrowroot, Bean and True Yam, Beets, Bitter and Sweet Cassava, Black and Spanish Salsify, Carrot, Celeriac (Celery Root), Chayote (Root), Chicory, Chufa, Dasheen (Taro), Edible Burdock, Edible Cana, Ginger, Ginseng, Green Beet, Horseradish, Leren, Oriental Radish, Parsnip, Radish, Rutabaga, Salsify (Oyster plant), Skirret, Sweet Potato, Tanier (Cocoyam), Turmeric, Turnip, Turnip-rooted Chervil, and Turnip-rooted Parsley, and other root and tuber vegetable crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.5 ml/kg to 5 ml/kg or 0.77 fl oz/100 lbs to 7.67 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Soybeans | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Rotylenchulus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Sugarbeet | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate: Product/Seed Wt:** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 0.25 ml/kg to 3 ml/kg or 0.38 fl oz/100 lbs to 4.60 fl oz/100 lbs |

*Not registered for use in California

**USE RESTRICTIONS**

Do not use treated seed for food, feed or oil purposes. For at-planting seed treatments, treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Care must be exercised in the handling of treated seed. Augers used for handling treated seed must not be used to move seed for feed, food or oil processing. Do not re-use bags from treated seed to handle food or feed products.

## STORAGE AND DISPOSAL

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

**Pesticide Storage**

Store in a cool, dry place under low humidity. Avoid direct sunlight and avoid excess heat. Keep out of reach of children and animals. Store in original container only. Carefully open container. After partial use, replace lid of container and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills) at 1-800-424-9300. To confine spill, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. If a leaky container must be contained within another, mark the outer container to identify the contents.

**Pesticide Disposal**

To avoid wastes, 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 Plastic Containers (Containers equal to or less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 drip. Add water – at least 2% of the container volume, and up to ⅓ of the volume of water needed to make the proper slurry composition with a maximum of ¼ of the container volume, and recap. Shake for 30 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 drip. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

**Nonrefillable Plastic Containers (Containers greater than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Add water – at least 2% of the container volume, and up to ⅓ of the volume of water needed to make the proper slurry composition with a maximum of ¼ of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

## Conditions of Sale and Limitation of Warranty and Liability

**Notice:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Chr. Hansen or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and, to the extent consistent with applicable law, Buyer and User agree to hold Chr. Hansen and Seller harmless for any claims relating to such factors.
**Seller warrants that this product conforms to the compositional description on the label and is reasonably fit for the purposes stated in the Directions for Use when used in accordance with the directions under normal conditions of use.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHR. HANSEN MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Chr. Hansen, and, to the extent consistent with applicable law, Buyer assumes the risk of any such use.**

Treatment of seed, especially seed that is mechanically damaged or seed known to be of low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small test sample of seed before treating commercial quantities with a selected treatment that includes this product. Due to seed quality and seed storage conditions beyond the control of Chr. Hansen, Chr. Hansen makes no claims or guarantees as to germination of carry-over seed.

To the extent consistent with applicable law, Chr. Hansen or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

# KANSAS 3 SC

Suspension Concentrate

LABEL Sub-Label B

Soil applied Use

A suspension concentrate biological fungicide/nematicide for soil-applied use for protection against labeled fungal diseases and soil nematodes.

**EPA Reg. No. 2375-L** **EPA Est. No. 2375-xx-xxxxx**

| **Active Ingredients:** | **By Wt.** |
|---|---|
| *Bacillus subtilis* strain CH4000* | 3.33% |
| *Bacillus paralicheniformis* strain CH0273* | 3.33% |
| *Bacillus paralicheniformis* strain CH2970* | 3.33% |
| **Other Ingredients** | 90.01% |
| **Total** | **100.00%** |

*Contains a minimum of 1.67 X $10^{10}$ colony forming units (CFU) of each active ingredient per mL of product.

## KEEP OUT OF REACH OF CHILDREN

**Not for sale or use after [Date stamped/placed on labeling will be 6 months after the date of manufacture]**

**Net Contents: XXXX**

**Sold By:**
**Chr. Hansen**
**9015 W Maple St.**
**Milwaukee, WI 53214**

**Batch/Lot code: _____**
**[*For nonrefillable containers only. Will be located on this label or on the physical container.*]**

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time (NPIC Website: www.npic.orst.edu). In event of a medical emergency, call your local poison control center at 1-800-222-1222.

# PRECAUTIONARY STATEMENTS

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- protective eyewear
- long-sleeved shirt
- long pants
- shoes plus socks
- waterproof gloves

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d) and (e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

**User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/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

**For container sizes <5 gallons**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**For container sizes ≥5 gallons**
For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. 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 systems 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.**
**Read entire label before using this product.**

Do not apply this product in a 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 State or Tribal agency responsible for pesticide regulation.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is:
-Protective eyewear
-Coveralls
-Waterproof gloves
-Shoes plus socks

**Non-Agricultural Use Requirements**

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treatment area until applied product is covered or dried in soil.

**PRODUCT INFORMATION**

KANSAS 3 SC is a Biofungicide/Bionematicide soil applied suspension concentrate formulation for the suppression and control of labeled fungal diseases and nematodes in a variety of horticultural and broadacre crops.

## SOIL APPLICATION

KANSAS 3 SC Biofungicide/Bionematicide can be used on labeled crops through direct soil application by drench, side-dress, in-furrow, or by chemigation through irrigation.. The rate of application is variable according to pest pressure. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heavier pest pressure. Use the highest labeled rate under arid conditions.

### DRENCH, SIDE-DRESS, OR IN-FURROW INSTRUCTIONS

After conducting initial tank mixing procedures (see COMPATIBILITY AND TANK MIXING section), apply KANSAS 3 SC Biofungicide/Bionematicide directly to soil by drench, side-dress or in-furrow (either T-band or directly over seed in the open furror). This product may be applied as a soil treatment in greenhouses. After such applications, ensure the product is covered with soil.

### CHEMIGATION THROUGH IRRIGATION INSTRUCTIONS

After conducting initial tank mixing procedures (see COMPATIBILITY AND TANK MIXING section) apply KANSAS 3 SC Biofungicide/Bionematicide only through center pivot, motorized-lateral move, traveling gun, solid set or portable (wheel move, side roll, end tow, or hand move) and drip irrigation systems, **as outlined in Sections A and B below.** Chemigation systems must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. Determine which type of irrigation system is in place, then refer to the appropriate directions provided below for each type (Sections A and B below). See crops section on the label for required treatment rates and additional use information. DO NOT apply KANSAS 3 SC Biofungicide/Bionematicide through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated, water-based tank mixes. If you have questions about calibration of irrigation equipment, contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, must shut the system down and make necessary adjustments should the need arise. KANSAS 3 SC Biofungicide/Bionematicide has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following application techniques are provided for user reference but DO NOT constitute a warranty of fitness for application through irrigation equipment.

DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label prescribed safety devices for public water systems are in place. ‘Public water system' means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer, or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an alternative to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There must be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. Pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being

withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The systems must contain functional interlocking controls, to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. DO NOT apply when wind speed favors drift beyond the area intended for treatment. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

KANSAS 3 SC Biofungicide/Bionematicide can be applied to labeled crops as a liquid tank-mix to the soil by drench, side dress, in-furrow (as a T-band or over the open furrow), or by chemigation through irrigation systems. The rate of application is variable according to pest pressure. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heavier pest pressure. Use the highest labeled rate under arid conditions.

SECTION A. INSTRUCTIONS FOR CENTER PIVOT, MOTORIZED-LATERAL MOVE AND TRAVELING GUN IRRIGATION EQUIPMENT

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through center pivot, motorized-lateral move, or traveling gun systems. These continuously moving systems must use a positive displacement injection pump of either diaphragm or piston type and be constructed of materials that are compatible with pesticides. They must also be capable of being fitted with a system interlock and capable of injection at pressures approximately 2-3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems. Thoroughly mix required amount of KANSAS 3 SC Biofungicide/Bionematicide for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until KANSAS 3 SC Biofungicide/Bionematicide has been cleared from the last sprinkler head.

SECTION B. INSTRUCTIONS FOR SOLID-SET, PORTABLE (WHEEL MOVE, SIDE ROLL, END TOW, OR HAND MOVE) AND DRIP IRRIGATION SYSTEMS

For Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Systems

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through stationary irrigation systems, including Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move). With these systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution of the product. However, a positive-displacement pump can also be used. For solid set systems, determine acreage covered by sprinklers. Fill the tank of injection equipment with water and adjust flow to use contents over 30 to 45 minutes. Mix desired amount of this product for acreage to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration. Provide chemical supply tank agitation sufficient for mixing until chemigation is completed. Operate entire system at normal pressures as advised by the manufacturer of injection equipment used, for amount of time established during calibration. This product can be injected during the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until the product(s) has been cleared from the lines and last sprinkler head.

For drip irrigation systems

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through stationary drip irrigation systems. Provide chemical supply tank agitation sufficient for mixing until chemigation is completed. With these systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution of the product. Fill the tank of injection

equipment with water and adjust the flow out of the supply/mix tank after 25% of irrigation water allocation has been applied in order to ensure the irrigation lines are primed and a wetting front in the roots has been created. Then, apply the KANSAS 3 SC Biofungicide/Bionematicide mixture into 50% of the irrigation water allocation volume to ensure optimal distribution of the product uniformly in the crop. Then, follow up with 25% of the total irrigation water allocation volume to ensure the product(s) have been cleared from irrigation lines. Operate entire system at normal pressures as advised by the manufacturer of injection equipment used for the amount of time established during calibration.

**COMPATIBILITY AND TANK MIXING INSTRUCTIONS**

COMPATIBILITY

KANSAS 3 SC Biofungicide/Bionematicide is physically compatible with many commonly used fungicides, herbicides, insecticides, and(or) nutrient products. However, the compatibility of KANSAS 3 SC Biofungicide/Bionematicide with all potential tank-mix partners has not been fully investigated. If tank mixing with other products is desirable, conduct a jar test with the volumes and rates typically used in labeled applications. Using a small container of water, add the proportionate amounts of the products in the following order: wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

TANK MIXING INSTRUCTIONS

When tank-mixing KANSAS 3 SC Biofungicide/Bionematicide with other registered pesticides and(or) other products, always read and follow all use directions, restrictions, and precautions of both KANSAS 3 SC Biofungicide/Bionematicide and the tank-mix partner(s). It is the pesticide user's responsibility to ensure that all tank-mix products are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. DO NOT exceed label dosage rates.

All applications of KANSAS 3 SC Biofungicide/Bionematicide involve the following general tank mixing procedures. Begin with clean supply, mixing and application equipment. Add one-half of the required amount of non-chlorinated water to the supply/mixing tank and start agitation. Dissolve the needed amount of KANSAS 3 SC Biofungicide/Bionematicide into a small volume of water to make a pre-mix slurry. Add needed amounts of products to the mix tank in the following order: water conditioners, water soluble packages (wait for them to completely dissolve), wettable powders and water-dispersible granular products, followed by liquids, including, liquid slurries (add KANSAS 3 SC Biofungicide/Bionematicide pre-mix slurry here), flowables, suspension concentrates, emulsifiable concentrates, with surfactants and(or) adjuvants added last. After adding the required quantity of KANSAS 3 SC Biofungicide/Bionematicide and other products to the mix tank, complete filling with water to the required final volume and maintain agitation throughout application. DO NOT allow tank mixture to remain in the tank overnight. DO NOT allow tank mixture to sit for long periods during the day without agitation. If non-chlorinated water is not available, DO NOT let KANSAS 3 SC Biofungicide/Bionematicide remain in chlorinated water for long periods of time as it may have detrimental effect on the bacterial endospores. Do not combine KANSAS 3 SC Biofungicide/Bionematicide with pesticides, surfactants, or fertilizers with which there has been no previous experience or use demonstrating that they are physically compatible, effective, and non-injurious under your use conditions. Follow the advice of your State Cooperative Extension Service for tank mixing procedures with other products.

## COMPATIBILITY TESTING AND TANK MIX PARTNERS

### Tank-Mixtures

KANSAS 3 SC may be applied in tank mixtures with other products approved for use on the crops listed on this label. Observe all application instructions, restrictions, and precautions which appear on the labels of any tank mixed products. To ensure successful applications, product compatibility tests should be conducted.

### Compatibility

KANSAS 3 SC is physically and biologically compatible with many commonly used pesticides, fertilizers, adjuvants, and surfactants but has not been fully evaluated with all of these. To ensure compatibility of tank-mix combinations, evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables, and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Test the combination on a small portion of the crop to be treated to ensure that a crop response does not occur as a result of application.

Do not combine KANSAS 3 SC with pesticides, surfactants, or fertilizers with which there has been no previous experience or use demonstrating that they are physically compatible, effective, and non-injurious under your use conditions.

## Application Rates, Crops, and Pests

# Specific Crop Directions

### Crop Rotation Restrictions

There are no crop rotation restrictions. Any crop can be rotated at any time after application of KANSAS 3 SC.

### Application Rates

KANSAS 3 SC may be applied as a soil applied fungicide/nematicide treatment at rates between 1.37-12.0 fl oz/A in 3-22 gal total solution for the following crops and fungi/nematode pests. Use the lower application rate for light infestations and the higher labeled rate for heavy infestations.

| **Crop Group 18 -** | Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Group: Alfalfa, Clover, and Forages | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 11 -** | Pome Fruits Group: Apple, Crabapple, Pear, Quince, Mayhaw, and other pome fruit | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Xiphinema*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 12 -** | Stone Fruit Group: Apricot, Cherry, Nectarine, Peach, Plum, and other stone fruit crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Artichoke | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 22 -** | Stalk, Stem and Leaf Petiole Vegetable Group:<br>Asparagus | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 24 -** | Tropical and Subtropical Fruit, Inedible Peel Group:<br>Avocado and Mango | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 5 -** | *Brassica* (Cole) Leafy Vegetables Group:<br>Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards,<br>Kale, Mustard Greens, Kohlrabi, and other *brassica* crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 24 -** | Tropical and Subtropical Fruit, Inedible Peel Group:<br>Banana, Plantain, and Pineapple | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 15 -** | Cereal Grains Group: (Exclude Corn)<br>Barley, Buckwheat, Millet, Oat, Pearl Millet, Proso Millet, Rice**, Rye, Sorghum, Teosinte, Triticale, Wheat, and other cereal grain crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California
**Do not apply to flooded fields

| **Crop Group 15 -** | Cereal Grains Group:<br>Corn (Field corn, Popcorn, Sweet corn, and Corn Grown for Seed) | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 20 -** | Oilseed Group:<br>Cottonseed | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Rotylenchulus reniformis*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 10 -** | Citrus Fruit Group:<br>Calamondin, Citrus citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour and Sweet Orange, Pummelo, Satsuma mandarin, and other citrus fruit crop | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Coffee | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 9 -** | Cucurbit Vegetables Group:<br>Chayote (fruit), Chinese wax gourd (Chinese preserving melon), Citron melon, Cucumber, Cantaloupe, Edible Gourd (such as Chinese Okra, Cucuzza, Hechima, and Hyotan), Gherkin, Melon, *Momordica* spp. (such as Balsam apple, Balsam pear, Bitter melon, and Cucumber), Muskmelon, Pumpkin, Summer and Winter Squash (such as Acorn, Butternut, Calabaza, Crookneck, Hubbard, Scallop, Spaghetti, and |
|---|---|
| | Zucchini), Squash, Watermelon, Chinese Watermelon, and other cucurbit crops |

| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
|---|---|---|
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 8 -** | Fruiting Vegetables Group:<br>African eggplant, Bell pepper, Bush tomato, Cocona, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Groundberry, Martynia, Naranjilla, Nonbell pepper, Okra, Pea eggplant, Pepino, Roselle, Scarlet eggplant, Sunberry, Tomatillo, and Tomato |
|---|---|

| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
|---|---|---|
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Grapes |
|---|---|

| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
|---|---|---|
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Tylenchulus semipenetrans*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Hemp |
|---|---|

| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
|---|---|---|
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 19 -** | Herbs and Spices Group:<br>Fresh and Dried Basil, Black Pepper, Chive, Celery seed, Dill seed, and other herbs and spices | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Hops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Kiwi | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 4 -** | Leafy Vegetables (Except *Brassica* Vegetables) Group:<br>Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables crops including those grown for seed production | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried): (Exclude Lentils and Soybeans)<br>Beans, Snap beans, Garbanzo beans, Lima beans, Peas, Chick peas, Dried bean and pea (*Lupinus* spp., *Phaseolus* spp., *Vigna* spp., and *Pisum* spp.), and other legume vegetable crops including those grown for seed production | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Lentils | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*] | 1.37-12.0 fl oz/A |
| *Heterodera*[*] | *Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | |

*Not registered for use in California

| **Crop 25 -** | Mint | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 20 -** | Oilseed Group: (Excludes Cottonseed, Peanut, and Soybeans)<br>Canola, Castor, Flax, Palm, Olive, Rapeseed, Safflower, Sesame, Sunflower, and other oil seed crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 3 -** | Bulb Vegetables (*Allium* SPP.) Group:<br>Onion, Garlic, Shallots, and other bulb vegetables including those grown for seed production | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Ornamental Flowers | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Peanut | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Belonolaimus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 23 -** | Tropical and Subtropical Fruit, Edible Peel Group:<br>Olive and Palm Tree | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Hemicriconemoides*[*]<br>*Rotylenchulus*[*]<br>*Tylenchulus*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 24 -** | Tropical and Subtropical Fruit, Inedible Peel Group:<br>Papaya | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Potato | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group: (Exclude Potato, Sugar Beet, and Artichoke)<br>Arracacha, Arrowroot, Bean and True Yam, Beets, Bitter and Sweet Cassava, Black and Spanish Salsify, Carrot, Celeriac (Celery Root), Chayote (Root), Chicory, Chufa, Dasheen (Taro), Edible Burdock, Edible Cana, Ginger, Ginseng, Green Beet, Horseradish, Leren, Oriental Radish, Parsnip, Radish, Rutabaga, Salsify (Oyster plant), Skirret, Sweet Potato, Tanier (Cocoyam), Turmeric, Turnip, Turnip-rooted Chervil, and Turnip-rooted Parsley, and other root and tuber vegetable crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Soybeans | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Strawberry | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Blueberry | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Hemicycliophor*[*]<br>*Helicotylenchus*[*]<br>*Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Mesocriconema*[*]<br>*Xiphinema*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Sugarbeet | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Sugarcane | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop -** | Tobacco | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*]<br>*Globodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

| **Crop Group 14 -** | Tree Nuts Group:<br>Almond, Beech nut, Brazil nut, Butternut, Cashew, Chinquapin, Coconut, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Walnut, and other tree nuts crops | |
|---|---|---|
| **Target Nematode** | **Target Plant Pathogens** | **Application Rate** |
| *Meloidogyne*[*]<br>*Pratylenchus*[*]<br>*Heterodera*[*] | *Rhizoctonia* spp.[*]<br>*Fusarium* spp.[*]<br>*Pythium* spp.[*]<br>*Collectotrichum* spp.[*]<br>*Verticillium* spp.[*] | 1.37-12.0 fl oz/A |

*Not registered for use in California

## STORAGE AND DISPOSAL

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

**Pesticide Storage**

Store in a cool, dry place under low humidity. Avoid direct sunlight and avoid excess heat. Keep out of reach of children and animals. Store in original container only. Carefully open container. After partial use, replace lid of container and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills) at 1-800-424-9300. To confine spill, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. If a leaky container must be contained within another, mark the outer container to identify the contents.

**Pesticide Disposal**

To avoid wastes, 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 Plastic Containers (Containers equal to or less than 5 gallons):**
Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 drip. 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 drip. Repeat this procedure two more times. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

**Nonrefillable Plastic Containers (Containers greater than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

## Conditions of Sale and Limitation of Warranty and Liability

**Notice:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Chr. Hansen or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and, to the extent consistent with applicable law, Buyer and User agree to hold Chr. Hansen and Seller harmless for any claims relating to such factors.
**Seller warrants that this product conforms to the compositional description on the label and is reasonably fit for the purposes stated in the Directions for Use when used in accordance with the directions under normal conditions of use.**

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To the extent consistent with applicable law, Chr. Hansen or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CHR. HANSEN AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CHR. HANSEN OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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# KANSAS 3 SC

Suspension Concentrate

LABEL Sub-Label C

Modified Soil applied Use

A suspension concentrate biological nematicide for soil-applied use for protection against labeled plant-parasitic soil nematodes.

**EPA Reg. No. 2375-L** **EPA Est. No. 2375-xx-xxxxx**

| **Active Ingredients:** | **By Wt.** |
|---|---|
| *Bacillus subtilis* strain CH4000* | 3.33% |
| *Bacillus paralicheniformis* strain CH0273* | 3.33% |
| *Bacillus paralicheniformis* strain CH2970* | 3.33% |
| **Other Ingredients** | 90.01% |
| **Total** | **100.00%** |

*Contains a minimum of 1.67 X $10^{10}$ colony forming units (CFU) of each active ingredient per mL of product.

## KEEP OUT OF REACH OF CHILDREN

**Not for sale or use after [Date stamped/placed on labeling will be 6 months after the date of manufacture]**

**Net Contents: XXXX**

**Sold By:**
**Chr. Hansen**
**9015 W Maple St.**
**Milwaukee, WI 53214**

**Batch/Lot code: _____**
**[*For nonrefillable containers only. Will be located on this label or on the physical container.*]**

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time (NPIC Website: www.npic.orst.edu). In the event of a medical emergency, call your local poison control center 1-800-222-1222.

# PRECAUTIONARY STATEMENTS

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- protective eyewear
- long-sleeved shirt
- long pants
- shoes plus socks
- waterproof gloves

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d) and (e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

**User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/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

**For container sizes <5 gallons**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**For container sizes ≥5 gallons**
For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. 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 systems 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.**
**Read entire label before using this product.**

Do not apply this product in a 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 State or Tribal agency responsible for pesticide regulation.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is:
-Protective eyewear
-Coveralls
-Waterproof gloves
-Shoes plus socks

**Non-Agricultural Use Requirements**

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treatment area until applied product is covered or dried in soil.

**PRODUCT INFORMATION**

KANSAS 3 SC is a Bionematicide soil applied suspension concentrate formulation for the suppression and control of labeled plant-parasitic nematodes in a variety of horticultural and broadacre crops.

## SOIL APPLICATION INSTRUCTIONS

KANSAS 3 SC Biofungicide/Bionematicide can be used on labeled crops through direct soil application by drench, side-dress, in-furrow, or by chemigation through irrigation. The rate of application is variable according to pest pressure. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heavier pest pressure. Use the highest labeled rate under arid conditions.

### DRENCH, SIDE-DRESS, OR IN FURROW APPLICATION INSTRUCTIONS

After conducting initial tank mixing procedures (see COMPATIBILITY AND TANK MIXING section), apply KANSAS 3 SC Biofungicide/Bionematicide directly to soil by drench, side-dress or in-furrow (either T-band or directly over seed in the open furror). This product may be applied as a soil treatment in greenhouses. After such applications, ensure the product is covered with soil.

### CHEMIGATION THROUGH IRRIGATION INSTRUCTIONS

After conducting initial tank mixing procedures (see COMPATIBILITY AND TANK MIXING section) apply KANSAS 3 SC Biofungicide/Bionematicide only through center pivot, motorized-lateral move, traveling gun, solid set or portable (wheel move, side roll, end tow, or hand move) and drip irrigation systems, **as outlined in Sections A and B below.** Chemigation systems must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. Determine which type of irrigation system is in place, then refer to the appropriate directions provided below for each type (Sections A and B below). See crops section on the label for required treatment rates and additional use information. DO NOT apply KANSAS 3 SC Biofungicide/Bionematicide through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated, water-based tank mixes. If you have questions about calibration of irrigation equipment, contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, must shut the system down and make necessary adjustments should the need arise. KANSAS 3 SC Biofungicide/Bionematicide has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following application techniques are provided for user reference but DO NOT constitute a warranty of fitness for application through irrigation equipment.

DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label prescribed safety devices for public water systems are in place. ‘Public water system' means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer, or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an alternative to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There must be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. Pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being

withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The systems must contain functional interlocking controls, to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. DO NOT apply when wind speed favors drift beyond the area intended for treatment. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

KANSAS 3 SC Biofungicide/Bionematicide can be applied to labeled crops as a liquid tank-mix to the soil by drench, side dress, in-furrow (as a T-band or over the open furrow), or by chemigation through irrigation systems. The rate of application is variable according to pest pressure. Use lower labeled rates under light to moderate pest infestations, and higher labeled rates under heavier pest pressure. Use the highest labeled rate under arid conditions.

Section A. Center Pivot, Motorized-Lateral Move and Traveling Gun Irrigation Equipment

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through center pivot, motorized-lateral move, or traveling gun systems. These continuously moving systems must use a positive displacement injection pump of either diaphragm or piston type and be constructed of materials that are compatible with pesticides. They must also be capable of being fitted with a system interlock and capable of injection at pressures approximately 2-3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems. Thoroughly mix required amount of KANSAS 3 SC Biofungicide/Bionematicide for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until KANSAS 3 SC Biofungicide/Bionematicide has been cleared from the last sprinkler head.

Section B. Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move) and Drip Irrigation Systems

For Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Systems

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through stationary irrigation systems, including Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move). With these systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution of the product. However, a positive-displacement pump can also be used. For solid set systems, determine acreage covered by sprinklers. Fill the tank of injection equipment with water and adjust flow to use contents over 30 to 45 minutes. Mix desired amount of this product for acreage to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration. Provide chemical supply tank agitation sufficient for mixing until chemigation is completed. Operate entire system at normal pressures as advised by the manufacturer of injection equipment used, for amount of time established during calibration. This product can be injected during the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until the product(s) has been cleared from the lines and last sprinkler head.

For drip irrigation systems

After tank-mixing procedures, KANSAS 3 SC Biofungicide/Bionematicide can be applied through stationary drip irrigation systems. Provide chemical supply tank agitation sufficient for mixing until chemigation is completed. With these systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution of the product. Fill the tank of injection equipment with water and adjust the flow out of the supply/mix tank after 25% of irrigation water

allocation has been applied in order to ensure the irrigation lines are primed and a wetting front in the roots has been created. Then, apply the KANSAS 3 SC Biofungicide/Bionematicide mixture into 50% of the irrigation water allocation volume to ensure optimal distribution of the product uniformly in the crop. Then, follow up with 25% of the total irrigation water allocation volume to ensure the product(s) have been cleared from irrigation lines. Operate entire system at normal pressures as advised by the manufacturer of injection equipment used for the amount of time established during calibration.

## COMPATIBILITY AND TANK MIXING INSTRUCTIONS

### COMPATIBILITY

KANSAS 3 SC Biofungicide/Bionematicide is physically compatible with many commonly used fungicides, herbicides, insecticides, and(or) nutrient products. However, the compatibility of KANSAS 3 SC Biofungicide/Bionematicide with all potential tank-mix partners has not been fully investigated. If tank mixing with other products is desirable, conduct a jar test with the volumes and rates typically used in labeled applications. Using a small container of water, add the proportionate amounts of the products in the following order: wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

### TANK MIXING INSTRUCTIONS

When tank-mixing KANSAS 3 SC Biofungicide/Bionematicide with other registered pesticides and(or) other products, always read and follow all use directions, restrictions, and precautions of both KANSAS 3 SC Biofungicide/Bionematicide and the tank-mix partner(s). It is the pesticide user's responsibility to ensure that all tank-mix products are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. DO NOT exceed label dosage rates.

All applications of KANSAS 3 SC Biofungicide/Bionematicide involve the following general tank mixing procedures. Begin with clean supply, mixing and application equipment. Add one-half of the required amount of non-chlorinated water to the supply/mixing tank and start agitation. Dissolve the needed amount of KANSAS 3 SC Biofungicide/Bionematicide into a small volume of water to make a pre-mix slurry. Add needed amounts of products to the mix tank in the following order: water conditioners, water soluble packages (wait for them to completely dissolve), wettable powders and water-dispersible granular products, followed by liquids, including, liquid slurries (add KANSAS 3 SC Biofungicide/Bionematicide pre-mix slurry here), flowables, suspension concentrates, emulsifiable concentrates, with surfactants and(or) adjuvants added last. After adding the required quantity of KANSAS 3 SC Biofungicide/Bionematicide and other products to the mix tank, complete filling with water to the required final volume and maintain agitation throughout application. DO NOT allow tank mixture to remain in the tank overnight. DO NOT allow tank mixture to sit for long periods during the day without agitation. If non-chlorinated water is not available, DO NOT let KANSAS 3 SC Biofungicide/Bionematicide remain in chlorinated water for long periods of time as it may have detrimental effect on the bacterial endospores. Do not combine KANSAS 3 SC Biofungicide/Bionematicide with pesticides, surfactants, or fertilizers with which there has been no previous experience or use demonstrating that they are physically compatible, effective, and non-injurious under your use conditions. Follow the advice of your State Cooperative Extension Service for tank mixing procedures with other products.

## Application Rates, Crops, and Pests

# Specific Crop Directions

## Crop Rotation Restrictions

There are no crop rotation restrictions. Any crop can be rotated at any time after application of KANSAS 3 SC.

**FOR CONTROL OF CROP DAMAGE CAUSED BY THE FOLLOWING PESTS**

| Target Pests* | |
|---|---|
| Awl nematodes (*Dolichodorus* species) | Reniform nematode (*Rotylenchulus reniformis*) |
| Burrowing nematode (*Radopholus similis*) | Ring nematodes (*Criconemoides*, *Criconemella* and *Mesocriconema* species) |
| Citrus nematode (*Tylenchulus semipenetrans*) | Root-knot nematodes (*Meloidogyne* species) |
| Cyst nematodes (*Heterodera* and *Globodera* species) | Spiral nematodes (*Helicotylenchus* and *Rotylenchus* species) |
| Dagger nematode (*Xiphinema* species) | Stem nematode (*Ditylenchus dipsaci*) |
| False root-knot nematodes (*Naccobus* species) | Sting nematode (*Belonolaimus longicaudatus*) |
| Lance nematodes (*Hoplolaimus* species) | Stubby root nematodes (*Trichodorus* and *Paratrichodorus* species) |
| Lesion nematodes (*Pratylenchus* species) | Stunt nematodes (*Tylenchorhynchus* species) |

*Not registered for use in California

## Application Rates

KANSAS 3 SC may be applied as a soil applied nematicide treatment at rates between 1.37-12.0 fl oz/A in 3-22 gal total solution for the following crops nematode pests. Use the lower application rate for light infestations and the higher labeled rate for heavy infestations

| **Crop Group 18 -** | Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Group: Alfalfa, Clover, and Forages |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 11 -** | Pome Fruits Group: Apple, Crabapple, Pear, Quince, Mayhaw, and other pome fruit |
|---|---|
| **Application Rate** | |
| **Full or partial orchards** | **12.00** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation.<br><br>Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |
| **Individual trees** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual trees. |

| | |
|---|---|
| | Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |

| **Crop Group 12 -** | Stone Fruit Group:<br>Apricot, Cherry, Nectarine, Peach, Plum, and other stone fruit crops |
|---|---|
| **Application Rate** | |
| **Full or partial orchards** | **12.00** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation.<br><br>Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |
| **Individual trees** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual trees.<br><br>Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Artichoke |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 22 -** | Stalk, Stem and Leaf Petiole Vegetable Group:<br>Asparagus |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 24 -** | Tropical and Subtropical Fruit, Inedible Peel Group:<br>Avocado and Mango |
|---|---|
| **Application Rate** | |
| **Full or partial orchards** | **12.00** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation.<br><br>Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |
| **Individual trees** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat |

| | |
|---|---|
| | approximately 10,000 sq ft of soil surface area around the trunk of individual trees.<br><br>Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |

| **Crop Group 5 -** | *Brassica* (Cole) Leafy Vegetables Group:<br>Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi, and other *brassica* crops |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 24 -** | Tropical and Subtropical Fruit, Inedible Peel Group:<br>Banana, Plantain, Papaya and Pineapple |
|---|---|
| **Application Rate** | |
| **At planting **** | For 190 plants: Mix 5.0 fl oz/100 gal water<br>• Apply 1.0 quart of the mixture into the planting hole just before planting. Apply another 1.0 quart around the base of each plant immediately after planting.<br>or<br>• Use conventional ground application equipment or knapsack sprayers for application. Water in with standard irrigation equipment or apply before or during rainfall. |
| **Application to established plants **** | For 190 plants: Mix 5.0 fl oz/25 gal water<br>• Apply the mixture in a one-foot radius around daughter suckers using conventional ground application equipment.<br><br>or<br>• Apply through a micro-sprinkler irrigation system.<br>• Re-apply on a 4-month interval. |

**Based on a population of 450 plants/ Acre.- 12.0 fl oz/Acre

| **Crop Group 15 -** | Cereal Grains Group: (Exclude Corn)<br>Barley, Buckwheat, Millet, Oat, Pearl Millet, Proso Millet, Rice**, Rye, Sorghum, Teosinte, Triticale, Wheat, and other cereal grain crops |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

**Do not apply to flooded fields

| **Crop Group 15 -** | Cereal Grains Group:<br>Corn (Field corn, Popcorn, Sweet corn, and Corn Grown for Seed) |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 20 -** | Oilseed<br>Group:<br>Cottonseed |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 10 -** | Citrus Fruit Group:<br>Calamondin, Citrus citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour and Sweet Orange, Pummelo, Satsuma mandarin, and other citrus fruit crop us Fruit Group |
|---|---|
| **Application Rate** | |
| **Full or partial orchards** | **12.00** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation.<br>• Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |
| **Individual trees** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual trees.<br>• Re-apply on a 2- to 4- month interval depending on pest pressure. Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |

| **Crop -** | Coffee |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 9 -** | Cucurbit Vegetables Group:<br>Chayote (fruit), Chinese wax gourd (Chinese preserving melon), Citron melon, Cucumber, Cantaloupe, Edible Gourd (such as Chinese Okra, Cucuzza, Hechima, and Hyotan), Gherkin, Melon, *Momordica* spp. (such as Balsam apple, Balsam pear, Bitter melon, and Cucumber), Muskmelon, Pumpkin, Summer and Winter Squash (such as Acorn, Butternut, Calabaza, Crookneck, Hubbard, Scallop, Spaghetti, and Zucchini), Squash, Watermelon, Chinese Watermelon, and other cucurbit crops |
|---|---|
| **Application Rate** | |
| **Application at Planting** | **12.0** fl oz/acre using any of the following methods:<br>• Chemigation into root-zone through low-pressure drip, trickle micro-sprinkler or equivalent equipment.<br>• In-furrow application.<br>• Transplant water drench.<br><br>**Transplant Tray Drench:**0.25 to 0.625 fl oz/100 gal water. Transplant tray dipping /drench prior to or at transplanting |
| **Application to field soils post-planting** | **12.0** fl oz/acre using any of the following methods:<br>• Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• Post-plant drench, or hill drench<br>• **Re-apply on a 2 to 6- week interval depending on pest pressure.**<br><br>• Do not apply KANSAS 3 SC within 14 days after a soil fumigant has been used. |

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|---|---|
| **Crop Group 8 -** | Fruiting Vegetables Group:<br>African eggplant, Bell pepper, Bush tomato, Cocona, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Groundberry, Martynia, Naranjilla, Nonbell pepper, Okra, Pea eggplant, Pepino, Roselle, Scarlet eggplant, Sunberry, Tomatillo, and Tomato |
| **Application Rates** | |
| **Application at Plant** | **12.0** fl oz/acre using any of the following methods:<br>• Chemigation into root-zone through low-pressure drip, trickle micro-sprinkler or equivalent equipment.<br>• In-furrow application.<br>• Transplant water drench.<br><br>**Transplant Tray Drench:**0.25 to 0.625 fl oz/100 gal water. Transplant tray dipping /drench prior to or at transplanting |
| **Application to field soils post-plant** | **12.0** fl oz/acre using any of the following methods:<br>• Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• Post-plant drench, or hill drench<br>• **Re-apply on a 2- to 6- week interval depending on pest pressure.**<br><br>• Do not apply KANSAS 3 SC within 14 days after a soil fumigant has been used. |

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|---|---|
| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Grapes |
| **Application Rate** | |
| **Full or partial vineyards** | **12.0** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted vines or those previously trained to drip, trickle or micro-sprinkler irrigation.<br>• Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |
| **Individual vines** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual vines.<br>•Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |

| | |
|---|---|
| **Crop -** | Hemp |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 19 -** | Herbs and Spices Group:<br>Fresh and Dried Basil, Black Pepper, Chive, Celery seed, Dill seed, and other herbs and spices |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop -** | Hops |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Kiwi |
|---|---|
| **Application Rate** | |
| **Full or partial vineyards** | **12.0** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted vines or those previously trained to drip, trickle or micro-sprinkler irrigation.<br>• Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |
| **Individual vines** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual vines.<br>•Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |

| **Crop Group 4 -** | Leafy Vegetables (Except *Brassica* Vegetables) Group:<br>Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables crops including those grown for seed production |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried): (Exclude Lentils and Soybeans)<br>Beans, Snap beans, Garbanzo beans, Lima beans, Peas, Chick peas, Dried bean and pea (*Lupinus* spp., *Phaseolus* spp., *Vigna* spp., and *Pisum* spp.), and other legume vegetable crops including those grown for seed production |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Lentils |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop 25 -** | Mint |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 20 -** | Oilseed Group: (Excludes Cottonseed, Peanut, and Soybeans)<br>Canola, Castor, Flax, Palm, Olive, Rapeseed, Safflower, Sesame, Sunflower, and other oil seed crops |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 3 -** | Bulb Vegetables (*Allium* SPP.) Group:<br>Onion, Garlic, Shallots, and other bulb vegetables including those grown for seed production |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop -** | Ornamental Flowers |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop -** | Peanut |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 23 -** | Tropical and Subtropical Fruit, Edible Peel Group:<br>Olive and Palm Tree |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Potato |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 1 -** | Root and Tuber Vegetables Group: (Exclude Potato, Sugar Beet, and Artichoke)<br>Arracacha, Arrowroot, Bean and True Yam, Beets, Bitter and Sweet Cassava, Black and Spanish Salsify, Carrot, Celeriac (Celery Root), Chayote (Root), Chicory, Chufa, Dasheen (Taro), Edible Burdock, Edible Cana, Ginger, Ginseng, Green Beet, Horseradish, Leren, Oriential Radish, Parsnip, Radish, Rutabaga, Salsify (Oyster plant), Skirret, Sweet Potato, Tanier (Cocoyam), Turmeric, Turnip, Turnip-rooted Chervil, and Turnip-rooted Parsley, and other root and tuber vegetable crops |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 6 -** | Legume Vegetables (Succulent or Dried):<br>Soybeans |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| | |
|---|---|
| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Strawberry |
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 13-07 -** | Berry and Small Fruit Crop Group:<br>Blueberry |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 1 -** | Root and Tuber Vegetables Group:<br>Sugarbeet |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop -** | Sugarcane |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop -** | Tobacco |
|---|---|
| **Application Rate** | |
| 1.37-12.0 fl oz/A | |

| **Crop Group 14 -** | Tree Nuts Group:<br>Almond, Beech nut, Brazil nut, Butternut, Cashew, Chinquapin, Coconut, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Walnut, and other tree nuts crops |
|---|---|
| **Application Rate** | |
| **Full or partial orchards** | **12.00** fl oz/acre using any of the following methods:<br>• At- or post-plant soil drench<br>• Chemigation into the root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.<br>• For optimum results with chemigation application, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation.<br>• Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure |
| **Individual trees** | **8.0** fl oz/100 gal water<br>• Apply as an at-plant or post-plant soil drench.<br>• 100 gallons of mixture is sufficient to treat approximately 10,000 sq ft of soil surface area around the trunk of individual trees.<br>• Re-apply on a 2- to 4- month interval depending on pest pressure. Re-apply with a minimum interval of 2 weeks and a maximum of 8 applications during the season, depending on pest pressure. |

## STORAGE AND DISPOSAL

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

**Pesticide Storage**

Store in a cool, dry place under low humidity. Avoid direct sunlight and avoid excess heat. Keep out of reach of children and animals. Store in original container only. Carefully open container. After partial use, replace lid of container and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills) at 1-800-424-9300. To confine spill, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. If a leaky container must be contained within another, mark the outer container to identify the contents.

**Pesticide Disposal**

To avoid wastes, 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 Plastic Containers (Containers equal to or less than 5 gallons):**
Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 drip. 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 drip. Repeat this procedure two more times. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

**Nonrefillable Plastic Containers (Containers greater than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration. If burned, stay out of smoke.

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