



OutReach SC Nematicide is a biological product that provides protection against listed plant parasitic nematodes.

ACTIVE INGREDIENT:	By Wt
<i>Bacillus amyloliquefaciens</i> strain PTA-4838*	2.20%
OTHER INGREDIENTS: Solvent carrier, Surfactant, Rheological agent, and <i>Rhizophagus irregularis</i> , <i>Claroideoglossum etunicatum</i> , <i>Funneliformis mosseae</i> and <i>Claroideoglossum claroideum</i>	97.80%
TOTAL:	100.00%

*Contains a minimum of 7.6 x 10⁹ CFU/g of the product.

EPA Reg. No. 73049-531

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List No. A560370

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KEEP OUT OF REACH OF CHILDREN

CAUTION



1.0

FIRST AID	
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other non-emergency information, call 1-800-323-9597. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, npic@ace.orst.edu 8:00AM to 12:00PM Pacific Time, Monday-Friday.	

2.0

PRECAUTIONARY STATEMENTS

2.1

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

2.2

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Protective eyewear
- Waterproof gloves
- Shoes plus socks

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 exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the 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.

2.3

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.

2.4

USER SAFETY RECOMMENDATIONS

Users should:

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

2.5

ENVIRONMENTAL HAZARDS

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.

3.0 DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. The labeling must be in the possession of the user at the time of the pesticide application.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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.

4.0 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.

For early entry into 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, wear: coveralls, protective eyewear, shoes and socks, and waterproof gloves.

5.0 NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product 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 treated areas until sprays have dried.

6.0 PRODUCT INFORMATION

OutReach SC Nematicide (hereafter referred to as *OutReach*) contains the active ingredient *Bacillus amyloliquefaciens* strain PTA-4838 that provides protection against listed plant parasitic nematodes when applied according to label directions. *OutReach* can be mixed directly with liquid starter, pop-up fertilizers or with water. Follow liquid fertilizer recommendations regarding seed safety and use guidelines.

7.0 APPLICATION DIRECTIONS

For row crop applications, *OutReach* is applied at planting as close to the seed or transplant as possible. Apply *OutReach* with adequate carrier volume to distribute product uniformly at planting.

IMPORTANT: When applying *OutReach*, DO NOT use filters or screens finer than #50 mesh.

8.0 COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

OutReach can be mixed directly with some additives, adjuvants, biocontrol products, fungicides, herbicides, insecticides, liquid fertilizers, and with water. Do not tank-mix *OutReach* with other products unless compatibility has been verified. If considering tank-mixing *OutReach* with other products, use the following

compatibility jar test before mixing an entire tank: Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Always read and follow all label directions and precautions for each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix *OutReach* with any product that has a prohibition against tank-mixing. For further information, consult your Valent Agricultural Specialist.

9.0 MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE

- 1) Carrier (water or liquid fertilizer)
- 2) Wettable granules (dry flowables)
- 3) Wettable powders
- 4) Aqueous solutions
- 5) Emulsifiable concentrates
- 6) Adjuvants

10.0 APPLICATION PREPARATION

10.1 In-Furrow

Application equipment must be clean and free of previous pesticide deposits before applying. Fill spray tank ½ full of the carrier (liquid fertilizer or water). Add products in mix order referenced in MIXING ORDER FOR TANK-MIX PARTNERS BY FORMULATION TYPE section to the spray tank. Then add the rest of the carrier (liquid fertilizer or water). Make sure that each product is mixed thoroughly and suspended before adding the next product. Maintaining agitation through the mixing and application process is required. Do not store mixed solutions for periods greater than 24 hours. Re-suspension of the solution is critical.

10.2 Chemigation Instructions *OutReach*

Apply this product only through drip (trickle) irrigation systems. Do not apply this product 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.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

10.3 Instructions for Chemigation Systems Connected to Public Water Systems

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, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall 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.

The 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 system 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.

10.4 Drip (Including Sub-surface)

The system 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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also 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 system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor 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. Fill the supply tank $\frac{1}{4}$ to $\frac{1}{2}$ full of water. Add *OutReach* directly to the supply tank. Mix thoroughly to fully disperse the product. Once dispersed and suspended, fill the tank with the remaining amount of water necessary for the injection. Maintaining agitation through the mixing and application process is required. Inject *OutReach* downstream of sand and/or screen filters finer than #50 mesh. Apply during the middle third of the irrigation run, concluding the injection before the end of the irrigation run, and allowing clean water to flush the lines and move product into the root zone.

IMPORTANT: After mixing with water, shake or stir vigorously. Maintain continuous agitation in the mix tank during mixing and application to ensure a uniform suspension. When spraying, *OutReach* use filters or screens no finer than #50 mesh.

11.0 APPLICATION INSTRUCTIONS FOR CROP CATEGORIES

Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.

Peanut [Not for Use in California]	
Pests	Application Rate
Root Knot Nematode Lesion Nematode Sting Nematode	6 - 10 fl. oz. of product/acre

Corn (Including Field, Sweet and Pop) [Not for Use in California]	
Pests	Application Rate
Dagger Nematode Lance Nematode Needle Nematode Pin Nematode Ring Nematode Root Knot Nematode Root Lesion Nematode Spiral Nematode Sting Nematode Stubby Root Nematode Stunt Nematode	6 - 10 fl. oz. of product/acre

Cotton (De-linted Only) [Not for Use in California]	
Pests	Application Rate
Lance Nematode Reniform Nematode Root Knot Nematode Sting Nematode	6 - 10 fl. oz. of product/acre

12.0 STORAGE AND DISPOSAL

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

Pesticide Storage: This product consists of living microbes. Store at room temperature, but do not exceed 95°F (35°C). Do not freeze. Tightly close opened container.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: For plastic containers less than or equal to 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 $\frac{1}{4}$ 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 for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. If burned, stay out of smoke.

13.0 NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in accordance with accompanying directions.

OutReach is a trademark of Valent BioSciences LLC.

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