



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 5, 2020

Cinda Bell  
Regulatory Specialist  
SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Updating  
Potency Statement  
Product Name: Bacix  
EPA Registration Number: 93505-1  
Application Date: 03/02/2020  
OPP Decision Number: 560434

Dear Ms. Bell:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

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 U.S. Environmental Protection Agency (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 false

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or misleading statements or claims substantially differing from the EPA-approved 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.

If you have any questions, please contact Cody Kendrick by phone at (703) 347-0468 or via email at [kendrick.cody@epa.gov](mailto:kendrick.cody@epa.gov).

Sincerely,



Susanne Cerrelli, Acting Product Manager  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure: Amended label

# BACIX

**MASTER LABEL, containing:**

**Sublabel A: Greenhouse and Field Use**

**Sublabel B: Home & Garden Use**

EPA Reg. No.: 93505-1

**A C C E P T E D**

Mar 05, 2020

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 93505-1

## Sublabel A: Greenhouse and Field Use

# BACIX

**ACTIVE INGREDIENT:**

*Bacillus subtilis* strain IAB/BS03.....2.0%

**OTHER INGREDIENTS:**.....98.0%

**TOTAL:**.....100.0%

Contains not less than  $2 \times 10^8$  cfu/g.

### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOTLINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

See (back) (side) panel for additional precautionary statements and directions for use.

**EPA Reg. No.:** 93505-1

**EPA Est. No.:** 93505-XX-XX

**Batch No. / Lot No.:** XXX

**Net Weight:** XX lbs. (XX kg)

**Manufactured by:** QUIMICAS MERISTEM S.L.  
CV-315, km. 7  
46113 Moncada (Valencia), SPAIN

**Distributed by:**  
(U.S. name and address –to be determined)

Not for sale or use after [date stamped is 6 months after the date of manufacture].

## PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals - CAUTION.** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, gloves, and shoes plus socks.

**Personal Protective Equipment (PPE):** Applicators and other handlers must wear a long-sleeved shirt, long pants, waterproof gloves, shoes, and socks. Mixer/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with a HE filter with NIOSH approval number prefix TC-21C. 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.

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

**Environmental Hazards:** This product may harm beneficial insects and honey bees. Do not apply this product when bees or other pollinating insects are actively foraging.

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

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may 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 (REI). 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 incorporated or soil injected, 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: coveralls, waterproof gloves, shoes, and socks.

**Product Information:** BACIX is a broad-spectrum biological fungicide for the prevention, control or suppression of soil-borne and foliar diseases on labeled agricultural crops. BACIX contains the active ingredient *Bacillus subtilis* IAB/BS03 which is a plant growth-promoting rhizobacteria that quickly establishes beneficial colonies on the plant's roots and leaves. It stimulates healthier roots, accelerates plant growth and activates the defense system of the plant. BACIX is non-selective. BACIX is most effective when applied prior to the onset of disease. Use BACIX in combination and/or rotation with chemical fungicides to enhance disease control. For use on labeled outdoor field grown food crops, such as vegetables, herbs, small fruits, berries and fruit and nut trees. Also for use in greenhouse plug production and hydroponics operations.

**Modes of Action:** BACIX has multiple modes of action in preventing, controlling or suppressing plant diseases. It produces a broad-spectrum group of lipopeptides that disrupts pathogen cell-wall formation. It is a competitive and fast colonizing rhizosphere bacterium, which occupies the plant's root hairs and leaves and prevents the growth and antagonistic effects of soil borne and foliar pathogens. *Bacillus subtilis* strain IAB/BS03 is known to stimulate phytohormones, which trigger the plant's systemic resistance to disease (Induced Systemic Resistance), the defense mechanisms of the plant for prolonged periods of time. It is non-selective to plant materials.

**Integrated Pest Management:** Integrating BACIX into an overall pest management strategy and following best management practices (or practices known to reduce disease development) makes it less likely that disease will be established. Specific IPM strategies developed for your crop and location may be available from the Extension Service or other local agricultural authorities.

**Mixing and Application Instructions:**

**MIXING:** Dilute BACIX with water and apply in conventional spray equipment or through sprinkler irrigation. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of BACIX to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. Use spray mixture immediately. Do not allow spray mixture to stand overnight or for prolonged periods.

Apply BACIX using conventional spray equipment to the point of saturation of the soil or growing media. Good coverage and wetting is required. The amount of spray solution to apply will vary depending on the type of crop. Most row crops will require up to 100 gallons of spray per acre. Apply in sufficient water to achieve thorough coverage.

**COMPATIBILITY:** BACIX may be tank mixed with some fungicides. Do not tank mix BACIX with more than one product. Consult specific product labels for additional information or restrictions concerning tank mixing. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. It is always advisable to conduct a spray compatibility test when you plan to mix this product with another product. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank.

BACIX has been evaluated for phytotoxicity on a variety of crops under various normal growing conditions. However, testing all crop varieties, in all mixtures and combinations is not feasible. Prior to treating entire crop, test a small portion of the crop for sensitivity.

**Foliar Application Use Directions – Ground and Aerial:** Apply BACIX as a foliar spray by ground or by air. Mix 0.25 – 1 pound BACIX in 15 to 100 gallons of water using 0.5 pounds/100 gallons dilution as an optimum concentration rate. Apply at a sufficient spray volume to ensure complete coverage. Refer to the application table below for more information.

## **AERIAL DRIFT REDUCTION INFORMATION**

**GENERAL:** Avoiding spray drift at the application site is the responsibility of the applicator (specifically, see **SENSITIVE AREAS** section for the requirement regarding spray drift and honey bees). The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed. Do not apply directly to aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**INFORMATION ON DROPLET SIZE:** Use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size. The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that will provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

**CONTROLLING DROPLET SIZE:** Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Pressure - Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When high flow rates are needed, use higher flow rate nozzles instead of increasing pressure. Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage. Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**BOOM WIDTH:** For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade.

**APPLICATION HEIGHT:** Do not make application at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure to droplets to evaporation and wind. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

**SWATH ADJUSTMENT:** When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must

compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

**WIND:** Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph. Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**TEMPERATURE AND HUMIDITY:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**TEMPERATURE INVERSIONS:** Do not apply during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**SENSITIVE AREAS:** The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, blooming crops or weeds that bees are visiting, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

**Soil Treatment Use Directions:** Apply BACIX by soil drench, in-furrow spray, or soil injection to improve plant health and to protect against certain soil-borne diseases.

In general, BACIX can be applied by the following methods, unless specified differently in the SELECTED CROPS section:

#### Soil Drench Applications

Apply BACIX at a concentration of 0.25 - 1 pound per 100 gallons of water, and at a sufficient rate to thoroughly soak the growing media and root zone. Make an initial application during or shortly after transplant to control soil-borne diseases, reduce transplant shock, induce disease resistance, and to promote root growth. Multiple drench applications can be made on a 10 – 14 day schedule.



### Shanked-In and Injected Applications

Shank or inject BACIX at a concentration of 0.25 – 1 pound per 100 gallons of water into the soil alone, or with most types of liquid nutrients.

### In-Furrow Applications

Apply BACIX at planting as an in-furrow spray. Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.

**Seed Treatment Use Directions:** Apply BACIX as a seed dressing, seed soak or tuber dip at plant. Do not use treated seed for food or feed purposes or process for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time.

### **CHEMIGATION USE DIRECTIONS:**

#### **General Requirements -**

- 1) Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move: flood (basin); furrow; border or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3) If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4) 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.
- 5) 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.

#### **Specific Requirements for Chemigation Systems Connected to Public Water Systems -**

- 1) 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.
- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow 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 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.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) 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.
- 5) 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.

- 6) 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.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

#### **Specific Requirements for Sprinkler Chemigation -**

- 1) 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 backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) 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.
- 6) 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 filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

#### **Specific Requirements for Flood (Basin), Furrow and Border Chemigation -**

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) The systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
  - a. 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 backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. 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.
  - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - e. 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.
  - f. 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 filled with a system interlock.

**Specific Requirements for Drip (Trickle) Chemigation -**

- 1) 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 backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) 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.
- 6) 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 filled with a system interlock.

**Application Instructions for All Types of Chemigation -**

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions. Product can be applied continuously or at any time during the water application.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.

**Application Rates for Selected Crops:** Use BACIX to prevent, control and suppress a broad range of plant diseases, as well as induce the natural defense system of the treated plants listed below.

Crops	Target Disease	Application Method	Use Rate per 100 Gallons of water	Notes
Artichoke	Powdery Mildew ( <i>Erysiphe cichoracearum</i> ) ( <i>Leveillula taurica</i> )	Foliar (Ground)	0.25 – 1 lb.	For ground applications, apply in 50 – 100 gallons of water per acre.
	Ramularia Leaf Spot ( <i>Ramularia cynarae</i> )	Foliar (Aerial)	0.25 – 1 lb.	Apply this product preventatively or at the first sign of disease symptoms are visible. Reapply every 7 – 14 days.  For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or

				when the first disease symptoms are visible and reapply every 7 – 14 days.
		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.
<b>Asparagus</b>	Botrytis Blight ( <i>Botrytis cinerea</i> )  Rust ( <i>Puccinia asparagi</i> )	Foliar (Ground)	0.25 – 1 lb.	For ground applications, apply this product in 50 – 100 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and apply every 7 – 14 days.
		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
<b>Berries and Small Fruits (Except Grape and Strawberry), including:</b>  Blackberry Blueberry Bushberry Caneberry Cranberry Currants Elderberry Gooseberry Huckleberry Loganberry Raspberry Kiwifruit	Botrytis Blight ( <i>Botrytis cinerea</i> )  Mummy Berry ( <i>Monilinia vaccinii-corymbosi</i> )  Alternaria Fruit Rot ( <i>Alternaria</i> spp.)  Anthracnose Fruit Rot ( <i>Colletotrichum acutatum</i> )  Bacterial Canker ( <i>Pseudomonas syringae</i> )  Leaf Rust ( <i>Pucciniastrum vaccinii</i> )  Leaf Spot and Blotch ( <i>Mycosphaerella</i> spp.) ( <i>Septoria</i> spp.)  Phomopsis Leaf Spot, Twig Blight and Fruit Rot ( <i>Phomopsis</i> spp.)  Powdery Mildew ( <i>Microsphaera alni</i> )  Spur Blight ( <i>Didymella</i> spp.) ( <i>Phoma</i> spp.)	Foliar (Ground)	0.25 – 1 lb.	Apply in 50 – 100 gallons per acre.  Mummy Berry – Begin applications at bud break stage of development. Apply preventatively and repeat on a 7 - 10 day interval or as needed.  Botrytis Blight – Apply this product preventatively prior to or at first sign of disease symptoms. Reapply every 7 – 14 days or as needed.  Bacterial Canker – Apply prior to Fall rains and repeat applications during dormancy before Spring growth. This product can be tank mixed with another registered fungicide for improved control of bacterial canker.  Anthracnose Fruit Rot and Alternaria Fruit Rot on blueberries – Apply at green tip and continue on a 7 – 10 interval.
		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a

				<p>minimum of 5 gallons of water per acre.</p> <p>Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.</p>
<p><b>Bulb Vegetables, including:</b></p> <p>Garlic Leeks Onions (Bulb and Green) Shallots</p>	<p>Botrytis Leaf Blight (<i>Botrytis squamosa</i>)</p> <p>Botrytis Neck Rot (<i>Botrytis</i> spp.)</p> <p>Onion Purple Blotch (<i>Alternaria porri</i>)</p> <p>Downy Mildew (<i>Peronospora</i> spp.)</p> <p>Powdery Mildew (<i>Erysiphe</i> spp.)</p> <p>Rust (<i>Puccinia porri</i>)</p> <p>Stemphyllium Leaf Blight (<i>Stemphyllium vesicarium</i>)</p>	Foliar	0.25 – 1 lb.	<p>Apply preventatively in 50 – 100 gallons of water per acre.</p> <p>Repeat applications at 7 – 14 day intervals.</p>
	<p><i>Fusarium</i> spp.</p> <p><i>Pythium</i> spp.</p> <p><i>Rhizoctonia</i> spp.</p>	Soil Drench	0.25 – 1 lb.	<p>Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.</p>
		In-Furrow	0.25 – 1 lb.	<p>Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.</p>
		Plant Dip	0.25 – 1 lb.	<p>Mix 0.25 - 1 pound of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.</p>
		Chemigation	0.25 – 1 lb.	<p>Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.</p>
<p><b>Cereal Grains (Except Corn), including:</b></p>	<p>Powdery Mildew (<i>Erysiphe graminis</i>)</p> <p>Bacterial Blight and Streak</p>	Foliar (Ground)	0.25 – 1 lb.	<p>To optimize disease control and to maximize yields, apply in 15 – 40 gallons of water per acre.</p>

Barley Buckwheat Sorghum (Milo) Oats Millet Rice Rye Triticale Wheat	( <i>Xanthomonas</i> spp.)  Brown Rot, Leaf Spots & Smuts ( <i>Ceratobasidium</i> spp.) ( <i>Cercospora</i> spp.) ( <i>Drechslera</i> spp.)  Rice Blast ( <i>Pyricularia grisea</i> )  Rust ( <i>Puccinia</i> spp.)  Septoria Leaf Spot ( <i>Septoria</i> spp.)  Sheath Spot and Blight ( <i>Rhizoctonia oryzae</i> ) ( <i>Thanatephorus cucumeris</i> )  Stem Rot ( <i>Sclerotium oryzae</i> )  Smut ( <i>Tilletia barclayana</i> )			Apply preventatively or when disease symptoms first appear. Repeat applications on a 7 – 14 day interval depending upon crop growth and disease pressure.  When plants are under high disease pressure, tank mix this product with another registered fungicide for more effective control.
Citrus Fruits, including:  Calamondin Citrus Citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange, sour and sweet Pummelo Satsuma mandarin	Bacterial Canker ( <i>Xanthomonas</i> spp.)	Foliar (Ground)	0.25 – 1 lb.	Apply in 50 – 100 gallons per acre.
	Alternaria Brown Spot ( <i>Alternaria alternata</i> )  Bacterial Blast ( <i>Pseudomonas syringae</i> )  Black Spot ( <i>Guignardia citricarpa</i> ) ( <i>Phyllosticta citricarpa</i> )  Greasy Spot ( <i>Mycosphaerella citri</i> )  Melanose ( <i>Diaporthe citri</i> )  Postbloom Fruit Drop ( <i>Colletotrichum acutatum</i> )  Scab ( <i>Elsinoe australis</i> ) ( <i>Elsinoe fawcetti</i> )	Foliar (Aerial)	0.25 – 1 lb.	Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.  To treat Bacterial Canker ( <i>Xanthomonas</i> spp.), tank mix this product with another registered fungicide for more effective control.  For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.  To treat Bacterial Canker ( <i>Xanthomonas</i> spp.), tank mix this product with another registered fungicide for more effective control.
Brassica (Cole) Leafy Vegetables, including:  Broccoli Broccoli Raab	Powdery Mildew ( <i>Erysiphe cruciferarum</i> ) ( <i>Erysiphe polygoni</i> )  Alternaria Leaf Spot ( <i>Alternaria</i> spp.)	Foliar (Ground)	0.25 – 1 lb.	Apply in 50 – 100 gallons per acre.  Begin application when conditions are conducive to disease development.

Brussels Sprouts Cabbage Chinese Broccoli Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavalo Broccolo Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens	Downy Mildew ( <i>Peronospora parasitica</i> )	Foliar (Aerial)	0.25 – 1 lb.	Repeat on 7 to 10 day intervals or as needed.
	Pin Rot Complex ( <i>Alternaria, Xanthomonas</i> )  Xanthomonas Leaf Spot ( <i>Xanthomonas campestris</i> )			For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
<b>Corn, including:</b>  Sweet Corn Field Corn Popcorn Silage Corn Seed Corn	Anthracnose Leaf Blight ( <i>Colletotrichum graminicola</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply in 15 – 40 gallons per acre.  Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
	Eye Spot ( <i>Aureobasidium zeae</i> )  Gray Leafspot ( <i>Cercospora zeae-maydis</i> )  Rusts ( <i>Puccinia</i> spp.)  Northern Leaf Blight ( <i>Cochliobus carbonum</i> )  Southern Leaf Blight ( <i>Cochliobus heterostrophus</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
<b>Cotton</b>	Alternaria Leaf Spot, Boll Rot ( <i>Alternaria</i> spp.) Anthracnose, Boll Rot ( <i>Anthracnose</i> spp.)  Ascochyta Blight, Boll Rot ( <i>Ascochyta</i> spp.)	Foliar (Ground)	0.25 – 1 lb.	Apply in 15 – 40 gallons per acre.  Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
	Cercospora Blight and Leaf Spot ( <i>Cercospora</i> spp.)  Diplodia Boll Rot ( <i>Diplodia</i> spp.)  Hard Lock, Boll Rot ( <i>Fusarium</i> spp.) Leaf Spot ( <i>Corynespora cassicola</i> )  Phoma Blight, Boll Rot ( <i>Phoma</i> spp.)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.

	Rust ( <i>Puccinia</i> spp.) ( <i>Phykopsora</i> spp.)			
	Stemphyllium Leaf Spot ( <i>Stemphyllium</i> spp.)			
<b>Cucurbit Vegetables</b>  <b>Includes all types and hybrids of:</b> Chayote Chinese Waxgourd Cucumber Citron Melon Gherkin Pumpkin Watermelon  <b>Edible Gourd:</b> Chinese Okra Cucuzza Hyotan  <b>Momordica spp.:</b> Balsam Apple Balsam Pear Bitter Melon Chinese Cucumber  <b>Muskmelon:</b> Cantaloupe Casaba Crenshaw Melon Golden Pershaw Melon Honeydew Melon Honey Balls Mango Melon Persian Melon Pineapple Melon Santa Clause Melon Snake Melon  <b>Summer Squash:</b> Crookneck Squash Scallop Squash Straightneck Squash Vegetable Marrow Zucchini  <b>Winter Squash:</b> Acorn Squash Butternut Squash Calabaza Hubbard Squash Spaghetti Squash  And other cucurbit vegetables	Powdery Mildew ( <i>Erysiphe cichoracearum</i> ) ( <i>Sphaerotheca fuliginea</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 25 – 100 gallons of water per acre or at first sign of disease symptoms. Increase water volume as plant size increases.  Reapply on a 7 -14 day interval depending on plant growth and disease pressure. Use shorter spray intervals for greenhouse cucurbits when under high disease pressure.
	Anthracnose ( <i>Colletotrichum lagenarium</i> )			
	Alternaria Leaf Spot ( <i>Cercospora citrulina</i> )			
	Downy Mildew ( <i>Pseudoperonospora cubensis</i> )			
	Gummy Stem Blight ( <i>Didymella bryoniae</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
	Phytophthora Blight ( <i>Phytophthora capsici</i> )			
	<i>Fusarium</i> spp.	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 - 1 pounds per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.
	<i>Phytophthora</i> spp.  <i>Pythium</i> spp.  <i>Rhizoctonia</i> spp.			
		In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pounds of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
		Plant Dip	0.25 – 1 lb.	Mix 0.25 - 1 pounds of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.
		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench



				applications are used.
<b>Fruiting Vegetables, including:</b>  Eggplant Okra Pepper Tomato Tomatillo Groundcherry	Bacterial Blight ( <i>Xanthomonas</i> spp.)  Bacterial Spot ( <i>Xanthomonas</i> spp.)  Bacterial Speck ( <i>Pseudomonas syringae</i> )  Black Mold ( <i>Alternaria alternata</i> )  Early Blight ( <i>Alternaria solani</i> )  Gray Mold ( <i>Botrytis cinerea</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 25 – 100 gallons of water per acre or at first sign of disease symptoms. Increase water volume as plant size increases.  Reapply on a 7 - 10 day interval depending on plant growth and disease pressure. Use shorter spray intervals for greenhouse cucurbits when under high disease pressure.
	Late Blight ( <i>Phytophthora capsici</i> )  Powdery Mildew ( <i>Erysiphe</i> spp.) ( <i>Leveillula taurica</i> ) ( <i>Oidopsis taurica</i> ) ( <i>Sphaerotheca</i> spp.)  Target Spot ( <i>Corynespora cassiicola</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
	<i>Fusarium</i> spp.  <i>Phytophthora</i> spp.  <i>Rhizoctonia</i> spp.  <i>Verticillium</i> spp.	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.
		In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
		Plant Dip	0.25 – 1 lb.	Mix 0.25 - 1 pound of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.

		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.
<b>Grapes</b>	Powdery Mildew <i>(Uncinula necator)</i>  Angular Leaf Spot <i>(Mycosphaerella angulata)</i>  Anthracnose <i>(Elsinoe ampelina)</i>  Botrytis Bunch Rot <i>(Botrytis cinerea)</i>  Black Rot <i>(Guignardia bidwellii)</i>  Downy Mildew <i>(Plasmopara viticola)</i>  Eutypa <i>(Eutypa lata)</i>  Leaf Blight <i>(Pseudocercospora vitis)</i>  Phomopsis Fruit Rot <i>(Phomopsis viticola)</i>  Ripe Rot <i>(Colletotrichum gloeosporioides)</i>  Sour Rot <i>(Alternaria tenuis)</i> <i>(Aspergillus spp.)</i> <i>(Botrytis cinerea)</i> <i>(Cladosporium herbarum)</i> <i>(Penicillium spp.)</i> <i>(Rhizopus arrhizus)</i>	Foliar	0.25 – 1 lb.	Apply preventively in 50 – 100 gallons of water per acre or the first signs of disease symptoms.  Repeat applications at 7 – 14 day intervals depending on crop growth and disease pressure.
<b>Grass Grown for Seed</b>	Powdery Mildew <i>(Erysiphe graminis)</i> <i>(Oidium spp.)</i> <i>(Podosphaera spp.)</i> <i>(Sphaerotheca spp.)</i>  Rust <i>(Puccinia spp.)</i>	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 25 – 100 gallons of water per acre when disease symptoms are first visible or when environmental conditions are conducive to rapid disease development. Reapply on a 7-day interval or as needed.
<b>Hops</b>	Downy Mildew <i>(Pseudoperonosperora humili)</i>  Powdery Mildew	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water or when environmental conditions are conducive to rapid disease development.

	( <i>Sphaerotheca macularis</i> )			Reapply on a 7-day interval or as needed.
<b>Leafy Vegetables (Except Brassica Vegetables), including:</b> Arugula Celery Chervil Corn Salad Garden Cress Dandelion Dock Edible-leaved Chrysanthemum Endive Fennel Head Lettuce Leaf Lettuce Parsley Purslane Radicchio Rhubarb Spinach Swiss Chard Watercress	Downy Mildew ( <i>Bremia lactuca</i> ) ( <i>Peronospora</i> spp.)  Bacterial Blight/Rot ( <i>Xanthomonas</i> spp.)  Cercospora Leafspot ( <i>Cercospora</i> spp.)  Late Blight ( <i>Septoria apiicola</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water or when environmental conditions are conducive to rapid disease development. Reapply on a 7- 14 day interval or as needed.  For concentrated ground applications, apply this product at 0.25 – 0.5 quart per acre in a minimum of 10 gallons of water per acre.
	Pink Rot ( <i>Sclerotinia sclerotiorum</i> )  Powdery Mildew ( <i>Erysiphe cichoracearum</i> )  Sclerotinia Had and Leaf Drop ( <i>Sclerotinia minor</i> ) ( <i>Sclerotinia sclerotiorum</i> )  White Rust ( <i>Albugo occidentalis</i> )	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
<b>Legume Vegetables (Succulent or Dried) (Except Soybean), including:</b> Chickpea Dry Beans Garbanzo Beans Green Beans Lentils Lima Beans Peas Shell Beans Snap Beans	Bacterial Blight ( <i>Xanthomonas campestris</i> )  Gray Mold ( <i>Botrytis cinerea</i> )  Pythium (aerial blight phase) ( <i>Pythium</i> spp.)  Powdery Mildew ( <i>Erysiphe</i> spp.)  Rust ( <i>Puccinia</i> spp.) ( <i>Uromyces appendiculatus</i> )  White Mold ( <i>Sclerotinia sclerotiorum</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water or when environmental conditions are conducive to rapid disease development. Reapply on a 7-day interval or as needed.

	<p><i>Fusarium</i> spp.</p> <p><i>Phytophthora</i> spp.</p> <p><i>Pythium</i> spp.</p> <p><i>Rhizoctonia</i> spp.</p>	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
<p><b>Mint and other Herbs/Spices, including:</b></p> <p>Angelica Balm Basil Borage Burnet Camomile Catnip Chervil Chive Clary Coriander Costmary Culantro Curry Dillweed Horehound Hyssop Lavender Lemongrass Lovage Marjoram Nasturtium Parsley (dried) Rosemary Sage Savory (summer and winter) Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff Wormwood</p>	<p>Downy Mildew (<i>Peronospora</i> spp.)</p> <p>Powdery Mildew (<i>Erysiphe</i> spp.)</p> <p>Rust (<i>Puccinia menthae</i>)</p>	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water per acre or at first sign of disease symptoms. Reapply on a 7 - 10 day interval depending on plant growth and disease pressure.
		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.
<p><b>Oilseeds (Except Cotton), including:</b></p> <p>Canola Castor Oil Plant Flax Seed Rapeseed Safflower Sesame Sunflower</p>	<p>Bacterial Pustule (<i>Xanthomonas</i> spp.)</p> <p>Bacterial Speck (<i>Pseudomonas syringae</i> pv. <i>glycinea</i>)</p> <p>Brown Spot (<i>Septoria glycines</i>)</p> <p>Cercospora Leaf Spot</p>	Foliar (Ground)	0.25 – 1 lb.	<p>To optimize disease control and maximize yields, apply this product preventatively in 15 – 40 gallons of water per acre.</p> <p>Consult your local Extension Specialist or Crop Consultant regarding the optimum timing of fungicide applications.</p>

	<p>(<i>Cercospora</i> spp.)</p> <p>Downy Mildew (<i>Peronospora mansherica</i>)</p> <p>Pod and Stem Blight (<i>Diaporthe phaseolorum</i> var. <i>sojae</i>) (<i>Phomopsis longicola</i>)</p> <p>White Mold/Sclerotinia Stem Rot (<i>Sclerotinia sclerotiorum</i>)</p>	Foliar (Aerial)	0.25 – 1 lb.	<p>For aerial applications, apply this product in a minimum of 5 gallons of water per acre.</p> <p>Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.</p>
<b>Olive</b>	Olive Knot ( <i>Pseudomonas savastanoi</i> )	Foliar	0.25 – 1 lb.	<p>Apply preventatively in 50 – 100 gallons of water per acre.</p> <p>Repeat application at 7 – 14 day intervals or as needed.</p>
<p><b>Ornamental Plants</b></p> <p><b>Herbaceous Ornamentals</b></p> <p>Flowering Plants Foliage Plants</p> <p><b>Woody Ornamentals</b></p> <p>Broadleaves, Shrubs and trees Conifers, Shrubs and trees</p>	<p>Anthracnose (<i>Colletotrichum</i> spp.)</p> <p>Bacteria (<i>Erwinia</i> spp.) (<i>Pseudomonas</i> spp.) (<i>Xanthomonas</i> spp.)</p> <p>Black Spot of Rose (<i>Diplocarpon rosae</i>)</p> <p>Blossom Blight (<i>Monilinia</i> spp.)</p> <p>Downy Mildew (<i>Peronospora</i> spp.) (<i>Plasmopara viburni</i>)</p> <p>Gray Mold (<i>Botrytis cinerea</i>)</p> <p>Leaf Spot (<i>Alternaria</i> spp.) (<i>Cercospora</i> spp.) (<i>Entomosporium</i> spp.) (<i>Myrothecium</i> spp.) (<i>Septoria</i> spp.)</p> <p>Powdery Mildew (<i>Erysiphe</i> spp.) (<i>Oidium</i> spp.) (<i>Podosphaera</i> spp.) (<i>Sphaerotheca</i> spp.)</p> <p>Rust (<i>Puccinia</i> spp.)</p> <p>Scab (<i>Venturia</i> spp.)</p>	Foliar	0.25 – 1 lb.	<p>Apply preventatively in 50 – 100 gallons of water and repeat on 7 – 14 day intervals, or as needed.</p> <p>Use this product to control certain diseases of container, bench, flat, plug, bed, or field-grown ornamentals in greenhouses, shade houses, outdoor nurseries, retail nurseries, and other landscape areas.</p>

	<p><i>Fusarium</i> spp.</p> <p><i>Phytophthora</i> spp.</p> <p><i>Pythium</i> spp.</p> <p><i>Rhizoctonia</i> spp.</p> <p><i>Verticillium</i> spp.</p>	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.
		Plant Dip	0.25 – 1 lb.	Mix 0.25 - 1 pound of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.
		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.
<b>Peanut</b>	<p>Aspergillus Crown Rot (<i>Aspergillus niger</i>)</p> <p>Rhizoctonia Foliar Blight, Peg, and Root Rot (<i>Rhizoctonia solani</i>)</p> <p>White Mold (<i>Sclerotium rolfsii</i>)</p>	Foliar	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water and repeat on 7 – 14 day intervals, or as needed.
	<p>Aspergillus Crown Rot (<i>Aspergillus niger</i>)</p> <p><i>Fusarium</i> spp.</p> <p><i>Phytophthora</i> spp.</p> <p><i>Pythium</i> spp.</p> <p><i>Rhizoctonia</i> spp.</p> <p><i>Verticillium</i> spp.</p>	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.
	<p>White Mold (<i>Sclerotium rolfsii</i>)</p>	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
<b>Pome Fruits, including:</b> Apple Crabapple Loquat Mayhaw Pear Pear, oriental Quince	<p>Powdery Mildew (<i>Podosphaera leucotricha</i>)</p> <p>Alternaria Blotch (<i>Alternaria mali</i>)</p> <p>Apple Scab (<i>Venturia inaequalis</i>)</p> <p>Bitter Rot</p>	Foliar	0.25 – 1 lb.	Apply in 50 – 100 gallons of water per acre. Begin applications when conditions are conducive to disease development Repeat applications on 3 – 10 day intervals or as needed.  Use high label rate and

	<p>(<i>Colletotrichum</i> spp.)</p> <p>Black Rot/ Frogeye Leaf Spot (<i>Botryosphaeria obtusa</i>)</p> <p>Bot Rot (<i>Botryosphaeria dothidea</i>)</p> <p>Brooks Spot (<i>Mycosphaerella pomii</i>)</p> <p>Bull's Eye Rot (<i>Neofabraea</i> spp.)</p> <p>Cedar-Apple Rust (<i>Gymnosporangium juniper-virginianae</i>)</p> <p>Fire Blight (<i>Erwinia amylovora</i>)</p> <p>Flyspeck (<i>Zygothiala jamaicensis</i>)</p> <p>Sooty Blotch (<i>Geastrumia polystigmati</i>) Leptodontium elatius (<i>Peltaster fructicola</i>)</p> <p>White Rot (<i>Botryosphaeria dothidea</i>)</p>			<p>shorter spray intervals when conditions are conducive to rapid disease development.</p> <p>To treat Fire Blight (<i>Erwinia amylovora</i>), tank mix this product with another registered fungicide for more effective control.</p>
<p><b>Root and Tuber Vegetables (Except Sugar Beets), including:</b></p> <p>Garden Beets Carrots Cassava Ginger Ginseng Horseradish Potato Radish Sweet potato Yams Turnip</p>	<p>Bacterial Leaf Blight (<i>Xanthomonas campestris</i>)</p> <p>Black Root Rot / Black Crown Rot (<i>Alternaria</i> spp.)</p> <p>Downy Mildew (<i>Peronospora</i> spp.)</p> <p>Early Blight (<i>Alternaria</i> spp.)</p> <p>Gray Mold (<i>Botrytis cinerea</i>)</p> <p>Late Blight (<i>Phytophthora infestans</i>)</p> <p>Powdery Mildew (<i>Erysiphe</i> spp.)</p> <p>White Mold (<i>Sclerotinia sclerotiorum</i>)</p> <p>Clubroot (<i>Plasmodiophora brassicae</i>)</p> <p>Common Scab</p>	Foliar	0.25 – 1 lb.	<p>Apply preventatively in 25 – 100 gallons of water and repeat on 5 – 10 day intervals, or as needed.</p> <p>Begin applications soon after emergence or transplant and when conditions are conducive to disease development. Use higher rates and shorter intervals when conditions favor rapid disease development.</p>
		Soil Drench	0.25 – 1 lb.	<p>Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.</p>
		In-Furrow	0.25 – 1 lb.	<p>Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing</p>

	( <i>Streptomyces scabies</i> ) <i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.			the spray into the seed furrow just before the seeds are covered.
		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.
<b>Soybean</b>	Aerial Web Blight ( <i>Rhizoctonia solani</i> ) Alternaria Leafspot ( <i>Alternaria</i> spp.) Anthracnose ( <i>Colletotrichum truncatum</i> ) Asian Soybean Rust ( <i>Phakopsora pachyrhizi</i> ) Brown Spot ( <i>Septoria glycines</i> ) Cercospora Blight ( <i>Cercospora kikuchii</i> )	Foliar (Ground)	0.25 – 1 lb.	To optimize disease control and maximize yields, apply this product preventatively in 15 – 40 gallons of water per acre.  Consult your local Extension Specialist or Crop Consultant regarding the optimum timing of fungicide applications.  To treat Asian Soybean Rust ( <i>Phakopsora pachyrhizi</i> ), tank mix this product with another registered fungicide for more effective control.
	Frog-eyed Leaf spot ( <i>Cercospora sojina</i> ) Pod and Stem Blight ( <i>Diaporthe</i> spp.) Septoria Brown Spot ( <i>Septoria glycines</i> ) White Mold ( <i>Sclerotinia sclerotiorum</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.  To treat Asian Soybean Rust ( <i>Phakopsora pachyrhizi</i> ), tank mix this product with another registered fungicide for more effective control.
	<i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp.	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
<b>Stone Fruits, including:</b> Apricot Cherry, sweet and tart Nectarine Peach Plum Plumcot	Alternaria Spot/Fruit Rot ( <i>Alternaria alternata</i> ) Anthracnose ( <i>Colletotrichum</i> spp.) Bacterial Canker ( <i>Pseudomonas</i> spp.) Bacterial Spot	Foliar	0.25 – 1 lb.	Apply preventively in 50 – 100 gallons of water when conditions are conducive to disease development. Apply on a 7 – 10 day spray interval or as needed.  Bacterial Blight – Apply postharvest before Fall rains.



Prune (fresh)	<p>(<i>Pseudomonas</i> spp.)</p> <p>Brown Rot Blossom Blight and Fruit Rot (<i>Monilinia</i> spp.)</p> <p>Cercospora Leaf Spot (<i>Cercospora</i> spp.)</p> <p>Cherry Leaf Rot (<i>Blumeriella jaapii</i>)</p> <p>Gray Mold (<i>Botrytis cinerea</i>)</p> <p>Jacket Rot, Green Fruit Rot (<i>Botrytis cinerea</i>, <i>Monilinia</i> spp., <i>Sclerotinia sclerotiorum</i>)</p> <p>Powdery Mildew (<i>Podosphaera</i> spp.) (<i>Sphaerotheca pannosa</i>)</p> <p>Rust (<i>Tranzschelia discolor</i>)</p> <p>Rusty Spot (<i>Podosphaera leucotricha</i>)</p> <p>Scab (<i>Cladosporium carpophilum</i>)</p> <p>Shot Hole (<i>Wilsonomyces carpophilus</i>)</p>			<p>Brown Rot Blossom Blight – Apply at early bloom and repeat on a 7-day schedule through petal fall or as needed.</p> <p>Powdery Mildew – Begin applications at popcorn stage and repeat on a 7-interval or as needed.</p> <p>Scab- Begin applications at petal fall and repeat on a 7 – 10 day interval or as needed.</p>
<b>Strawberry</b>	<p>Anthrachnose (<i>Colletotrichum</i> spp.)</p> <p>Botrytis (<i>Botrytis cinerea</i>)</p> <p>Leaf Spot (<i>Mycosphaerella fragariae</i>)</p> <p>Phomopsis Leaf Blight (<i>Phomopsis obscurans</i>)</p> <p>Powdery Mildew (<i>Sphaerotheca macularis</i>)</p>	Foliar	0.25 – 1 lb.	Apply preventively in 50 – 100 gallons of water when conditions are conducive to disease development. Apply on a 7 – 10 day spray interval or as needed.
	<p>Black Root Rot (<i>Rhizoctonia</i> spp.) (<i>Pythium</i> spp.) (<i>Fusarium</i> spp.) (<i>Cylindrocarpon</i> spp.)</p> <p>Phytophthora Root Rot and Crown Rot (<i>Phytophthora</i> spp.)</p> <p>Verticillium Wilt (<i>Verticillium</i> spp.)</p>	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 - 1 pound per 100 gallons of water, thoroughly soaking the growing media and root zone. Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root growth. Multiple drench applications can be made on a 10 – 14 day interval.

	<i>Fusarium</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp.	Plant Dip	0.25 – 1 lb.	Mix 0.25 - 1 pound of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.
		Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14- day intervals or begin 14 days after transplant when soil drench applications are used.
<b>Sugar Beets</b>	Powdery Mildew ( <i>Erysiphe betae</i> ) ( <i>Erysiphe polygoni</i> )  Leaf Spot ( <i>Cercospora beticola</i> )  Ramularia ( <i>Ramularia</i> spp.)  Rust ( <i>Uromyces betae</i> )	Foliar	0.25 – 1 lb.	Apply preventatively in 15 – 40 gallons of water per acre by ground or air.  Consult your local Extension Specialist or Crop Consultant for optimum timing of fungicide applications.
<b>Sugarcane</b>	Brown Rust ( <i>Puccinia melanocephala</i> )  Orange Rust ( <i>Puccinia kuehnii</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 15 – 40 gallons of water per acre by ground or air.  Consult your local Extension Specialist or Crop Consultant for optimum timing of fungicide applications
		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
<b>Tobacco</b>	Blue Mold ( <i>Peronospora tabacina</i> )	Foliar	0.25 – 1 lb.	Apply preventatively in a minimum of 50 gallons of water per acre.  Consult your local Extension Specialist or Crop Consultant for optimum timing of fungicide applications.
	<i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.	Plant Dip	0.25 – 1 lb.	Mix 0.25 - 1 pound of BACIX in 100 gallons of water and use as a pre-plant dip immediately prior to transplant.

<b>Tree nuts, including:</b> Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory nut Macadamia nut Pecan Walnut, Black and English	Walnut Blight ( <i>Xanthomonas campestris</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventively in 50 – 100 gallons of water when conditions are conducive to disease development. Apply on a 7 – 10 day spray interval or as needed.
	Alternaria Late Blight, Alternaria Leaf Spot ( <i>Alternaria spp.</i> ) Anthracnose ( <i>Colletotrichum spp.</i> ) ( <i>Gnomonia leptostyla</i> ) Bacterial Canker ( <i>Erwinia nigrifluens</i> ) Botryosphaeria Blight ( <i>Botryosphaeria dothidea</i> ) Brown Rot ( <i>Monilinia spp.</i> ) Jacket Rot, Green Fruit Rot ( <i>Botrytis cinerea, Monilinia spp., Sclerotinia sclerotiorum</i> ) Eastern Filbert Blight ( <i>Anisogramma anomala</i> ) Leaf Rust ( <i>Tranzschelia discolor</i> ) Scab ( <i>Cladosporium carpophilium</i> ) ( <i>Sphaceloma perseae</i> ) Shot Hole ( <i>Wilsonomyces carpophilus</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
<b>Tropical and Subtropical Fruit, Inedible Peel Group, including:</b> Avocado Banana Mango Papaya Plantain Pineapple Pomegranate	Anthracnose ( <i>Colletotrichum gloeosporioides</i> ) Bacterial Blight ( <i>Pseudomonas syringae</i> ) ( <i>Pseudomonas viridiflava</i> )	Foliar (Ground)	0.25 – 1 lb.	Apply preventively in 50 – 100 gallons of water when conditions are conducive to disease development. Apply on a 7 – 10 day spray interval or as needed.
	Bacterial Canker ( <i>Xanthomonas campestris</i> ) Botrytis Fruit Rot ( <i>Botrytis cinerea</i> ) Scab ( <i>Elsinoe mangiferae</i> ) Sigatoka ( <i>Mycosphaerella fijiensis</i> )	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.  Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.

## Application Rates for Seed Treatment:

Type of seed	Disease	Lbs. of product/100 Gallons of water	Notes
<b>True seed crops</b>	<i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.	0.25 – 1 lb.	Apply sufficient diluted product to soak seeds. Apply directly to seeds. Do not rinse. Allow to dry and/or plant soaked seeds.
<b>In-furrow seed treatment at planting</b>	<i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.	0.25 – 1 lb.	Apply sufficient diluted product to wet the soil covering seeds. Apply by spray, furrow and/or in-furrow irrigation.
<b>Dip treatment for tubers at planting</b>	<i>Fusarium</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.	0.25 – 1 lb.	Pre-dip tubers prior to planting. Apply sufficient product to tubers before planting.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place. Store in original container only. Keep container tightly closed when not in use.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling, if available or dispose of empty bag in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### WARRANTY STATEMENT

QUIMICAS MERISTEM S.L. warrants that this product conforms to its description and is reasonably fit for the purposes stated on the label when used in accordance with Seller's directions. Buyers and users of this product assume the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTEE, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. To the extent consistent with applicable law, the Seller's liability for any breach of warranty shall not exceed the purchase price of the material as to which a claim is made.

To the extent consistent with applicable law, buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, or without the fault or negligence of the Seller, or from failure to follow the label.

## Sublabel B: Home and Garden Use

# BACIX

**ACTIVE INGREDIENT:**

*Bacillus subtilis* strain IAB/BS03.....2.0%

**OTHER INGREDIENTS:**.....98.0%

**TOTAL:**.....100.0%

Contains not less than  $2 \times 10^8$  cfu/g.

### KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOTLINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

See (back) (side) panel for additional precautionary statements and directions for use.

EPA Reg. No.: 93505-1

Net Weight: XX lbs. (XX kg)

EPA Establishment No.: 93505-XX-XX

Batch No. / Lot No.: XXX

**Manufactured by:** QUIMICAS MERISTEM S.L.  
CV-315, km. 7  
46113 Moncada (Valencia), SPAIN

**Distributed by:**  
(U.S. name and address –to be determined)

Not for sale or use after [date stamped is 6 months after the date of manufacture].

## PRECAUTIONARY STATEMENTS

**Hazards to humans and domestic animals - CAUTION.** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear long sleeved shirt and long pants, gloves, and shoes plus socks.

**Environmental Hazards:** This product may harm beneficial insects and honey bees. Do not apply this product when bees or other pollinating insects are actively foraging.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

## PRODUCT INFORMATION

BACIX is a broad-spectrum biological fungicide for the prevention, control or suppression of soil borne and foliar diseases on labeled home and garden plants. BACIX contains the active ingredient *Bacillus subtilis* IAB/BS03 which is a rhizosphere bacterium that quickly establishes beneficial colonies on the plant's roots and leaves. It stimulates healthier roots, accelerates plant growth and activates the defense system of the plant. BACIX is non-selective. BACIX is most effective when applied prior to the onset of disease. Use BACIX in combination and/or rotation with chemical fungicides to enhance disease control. For use on labeled outdoor grown home and garden plants including vegetables, herbs, small fruits, berries and fruit and nut trees.

## HOW TO APPLY

**RATE:** Mix 1/2 teaspoon of BACIX per gallon of water.

**MIXING:** Dilute BACIX with water and apply in pressurized hand-held sprayers, spray trigger bottles or hose-end sprayers. Partially fill the spray tank with clean water. Add the specified amount of BACIX to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. Shake the spray tank and use spray mixture immediately. Do not allow spray mixture to stand overnight or for prolonged periods.

Apply BACIX to the point of saturation of the treated foliage. Good coverage and wetting is required. The amount of spray solution to apply will vary depending on the type of plant. Apply in sufficient water to achieve thorough coverage. Apply at the first sign of disease and repeat at 7 – 14 day intervals as needed.

## WHERE TO APPLY

### Apply to the following types home and garden plants:

Asparagus; beets, broccoli; Brussels sprouts; cabbage; carrots; cane fruit (raspberry, blackberry, etc.) cauliflower; celery; collards; cucumbers; edible-podded legume vegetables including: snap bean, wax bean, yard long bean, jack bean, edible-pod pea, snow pea, sugar snap pea, dried shelled beans and peas including: field bean, kidney bean, lima bean (dry), navy bean, pinto bean, adzuki bean, black-eyed pea, cowpea, mung bean, southern pea, lentil (dry); eggplant; grapes; herbs; horseradish; kale; lettuce; melons; mustard greens; onions; parsnips; pepper; potatoes; radish; rutabaga; salsify; squash (winter and summer); sweet potato; strawberry; tomatoes; turnip greens; and turnips.

Ornamentals-including annuals and perennials

Fruit and Nut Trees

Turf

### To control the following

Downy Mildew  
Powdery Mildew  
Black, Stem, Crown and Root Rot  
Blight  
Damping-off Fungus  
Gray Mold

BACIX controls a variety of the most common plant root rot and foliar diseases when used on a preventative schedule.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool dry place inaccessible to children.

**Pesticide Disposal and Container Handling:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partially filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY STATEMENT

QUIMICAS MERISTEM S.L. warrants that this product conforms to its description and is reasonably fit for the purposes stated on the label when used in accordance with Seller's directions. Buyers and users of this product assume the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTEE, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. To the extent consistent with applicable law, the Seller's liability for any breach of warranty shall not exceed the purchase price of the material as to which a claim is made.

To the extent consistent with applicable law, buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, or without the fault or negligence of the Seller, or from failure to follow the label.