

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

February 10, 2023

Anna Armstrong Authorized Agent to Químicas Meristem S.L. c/o SciReg, Inc. 12733 Director's Loop Woodbridge, VA 22192

Subject: Pesticide Registration Improvement Act (PRIA) Labeling Amendment – To Extend the

Expiration Date to 24 Months

Product Name: BACIX

EPA Registration Number: 93505-1 EPA Receipt Date: 09/29/2022 Action Case Number: 00396689

Dear Ms. Armstrong:

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 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 EPA find or if it is brought to our attention that a website contains or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to 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.

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If you have any questions, please contact Jennifer Odom-Douglas by phone at (202) 566-1536 or via email at odomdouglas.jennifer@epa.gov.

Sincerely,

Digitally signed by CODY KENDRICK CODY KENDRICK Date: 2023.02.10 11:29:31 -08'00'

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

Enclosure

BACIX

MASTER LABEL, containing:

Sublabel A: Greenhouse and Field Use

Sublabel B: Home & Garden Use

EPA Reg. No.: 93505-1

ACCEPTED

Feb 10, 2023

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:	<u>98.0%</u>
TOTAL:	1 00.0%

^{*}Contains not less than 2 X 108 cfu/g of product.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID					
If swallowed	Call a poison control center or doctor immediately for treatment advice.				
 Have person sip a glass of water if able to swallow. 					
Do not induce vomiting unless told to do so by the poison control center or					
	doctor.				
	Do not give anything by mouth to an unconscious person.				
If on skin or	Take off contaminated clothing.				
clothing	Rinse skin immediately with plenty of water for 15 – 20 minutes.				
	Call a poison control center or doctor for treatment advice.				
	HATI ME MIMBER				

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222.

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

EPA Reg. No.: 93505-1 Net Weight: XX lbs. (XX kg)

EPA Est. 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 24 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.

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.

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

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 -

- 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.
- 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 -

- 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, solenoidoperated 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 -

- 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 lowpressure 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 -

- 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 (Erysiphe cichoracearum) (Leveillula taurica) Ramularia Leaf Spot (Ramularia cynarae)	Foliar (Ground)	0.25 – 1 lb.	For ground applications, apply in 50 – 100 gallons of water per acre. Apply this product preventatively or at the first sign of disease symptoms are visible. Reapply 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.

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

Bulb Vegetables,	Botrytis Leaf Blight	Foliar	0.25 – 1 lb.	the first disease symptoms are visible and reapply every 7 – 14 days. Apply preventively in 50 – 100
including: Garlic Leeks Onions (Bulb and Green) Shallots	(Botrytis squamosa) Botrytis Neck Rot (Botrytis spp.) Onion Purple Blotch (Alternaria porri) Downy Mildew (Peronospora spp.) Powdery Mildew (Erysiphe spp.) Rust (Puccinia porri) Stemphylium Leaf Blight (Stemphylium vesicarium)			gallons of water per acre. Repeat applications at 7 – 14 day intervals.
	Fusarium spp. Pythium spp. Rhizoctonia 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 Plant Dip	0.25 – 1 lb. 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. 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.
Cereal Grains (Except Corn), including: Barley Buckwheat Sorghum (Milo) Oats Millet Rice Rye Triticale	Powdery Mildew (Erysiphe graminis) Bacterial Blight and Streak (Xanthomonas spp.) Brown Rot, Leaf Spots and Smuts (Ceratobasidium spp.) (Cercospora spp.) (Drechslera spp.)	Foliar (Ground)	0.25 – 1 lb.	To optimize disease control and to maximize yields, apply in 15 – 40 gallons of water per acre. Apply preventatively or when disease symptoms first appear. Repeat applications on a 7 – 14 day interval depending upon crop growth and disease pressure.

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Wheat	Rice Blast (Pyricularia grisea) Rust (Puccinia spp.)			When plants are under high disease pressure, tank mix this product with another registered fungicide for more effective control.
	Septoria Leaf Spot (Septoria spp.)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.
	Sheath Spot and Blight (Rhizoctonia oryzae) (Thanatephorus cucumeris)			Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
	Stem Rot (Sclerotium oryzae)			
	Smut (<i>Tilletia barclayana</i>)			
Citrus Fruits, including:	Bacterial Canker (Xanthomonas spp.)	Foliar (Ground)	0.25 – 1 lb.	Apply in 50 – 100 gallons per acre.
Calamondin Citrus Citron Citrus hybrids Grapefruit Kumquat Lemon	Alternaria Brown Spot (Alternaria alternata) Bacterial Blast (Pseudomonas syringae)			Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
Lime Mandarin Orange, sour and sweet Pummelo	Black Spot (Guignardia citricarpa) (Phyllosticta citricarpa) Greasy Spot			To treat Bacterial Canker (Xanthomonas spp.), tank mix this product with another registered fungicide for more effective control.
Satsuma mandarin	(Mycosphaerella citri) Melanose (Diaporthe citri)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.
	Post-bloom Fruit Drop (Colletotrichum acutatum) Scab			Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14 days.
	(Elsinoë australis) (Elsinoë fawcetti)			To treat Bacterial Canker (Xanthomonas spp.), tank mix this product with another registered fungicide for more effective control.
Brassica (Cole) Leafy Vegetables, including:	Powdery Mildew (Erysiphe cruciferarum) (Erysiphe polygoni)	Foliar (Ground)	0.25 – 1 lb.	Apply in 50 – 100 gallons per acre.
Broccoli Broccoli Raab Brussels Sprouts Cabbage	Alternaria Leaf Spot (Alternaria spp.) Downy Mildew			Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
Chinese Broccoli Chinese Cabbage (Bok Choy)	(<i>Peronospora parasitica</i>) Pin Rot Complex	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.
Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai	(Alternaria, Xanthomonas) Xanthomonas Leaf Spot			Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14

OL \			T	
Choy)	(Xanthomonas			days.
Cauliflower	campestris)			
Cavalo Broccolo				
Collards Kale				
Kohlrabi				
Mizuna Mustard Greens				
Mustard Spinach Rape Greens				
Corn, including:	Anthracnose Leaf Blight	Foliar (Ground)	0.25 – 1 lb.	Apply in 15 – 40 gallons per
Corn, including.	(Colletotrichum	Foliai (Giodila)	0.25 - 1 10.	acre.
Sweet Corn	graminicola)			acie.
Field Corn	grammicola)			Begin application when
Popcorn	Eye Spot			conditions are conducive to
Silage Corn	(Aureobasidium zeae)			disease development. Repeat
Seed Corn	(Marcobasidiam zeac)			on 7 to 10 day intervals or as
Occa Com	Gray Leaf Spot			needed.
	(Cercospora zeae-	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
	maydis)	i oliai (Aeriai)	0.23 – 1 15.	this product in a minimum of 5
	mayare			gallons of water per acre.
	Rusts			ganono or water per acre.
	(<i>Puccinia</i> spp.)			Apply preventatively or when
	(, достис срр.)			the first disease symptoms are
	Northern Leaf Blight			visible and reapply every 7 – 14
	(Cochliobolus carbonum)			days.
	(Coomerciae cancenam)			dayo.
	Southern Leaf Blight			
	(Cochliobolus			
	heterostrophus)			
Cotton	Alternaria Leaf Spot, Boll	Foliar (Ground)	0.25 – 1 lb.	Apply in 15 – 40 gallons per
	Rot	() () () () ()		acre.
	(Alternaria spp.)			
	(Begin application when
	Anthracnose, Boll Rot			conditions are conducive to
	(Anthracnose spp.)			disease development. Repeat
	,			on 7 to 10 day intervals or as
	Ascochyta Blight, Boll Rot			needed.
	(Ascochyta spp.)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
	,	,		this product in a minimum of 5
	Cercospora Blight and			gallons of water per acre.
	Leaf Spot			
	(Cercospora spp.)			Apply preventatively or when
				the first disease symptoms are
	Diplodia Boll Rot			visible and reapply every 7 – 14
	(<i>Diplodia</i> spp.)			days.
	Hard Lock, Boll Rot			
	(<i>Fusarium</i> spp.)			
	Leaf Spot (Corynespora			
	cassicola)			
	Phoma Blight, Boll Rot			
	(<i>Phoma</i> spp.)			
	Rust			
	(Puccinia spp.)			
	(Phakopsora spp.)			
	Stemphylium Leaf Spot			
	(Stemphylium spp.)			

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Cucurbit	Powdery Mildew	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 25 –
Vegetables,	(Erysiphe cichoracearum)			100 gallons of water per acre or
Includes all types	(Sphaerotheca fuliginea)			at first sign of disease
and hybrids of:				symptoms. Increase water
Chayote	Anthracnose			volume as plant size increases.
Chinese Waxgourd	(Colletotrichum			Describes a 7 AA day
Cucumber Citron Melon	lagenarium)			Reapply on a 7 – 14 day
Gherkin	Alternaria Loof Chat			interval depending on plant growth and disease pressure.
Pumpkin	Alternaria Leaf Spot (Cercospora citrullina)			Use shorter spray intervals for
Watermelon	(Cercospora citrulliria)			greenhouse cucurbits when
Valennelon	Downy Mildew			under high disease pressure.
Edible Gourd:	(Pseudoperonospora	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
Chinese Okra	cubensis)	Tolial (Actial)	0.20 110.	this product in a minimum of 5
Cucuzza				gallons of water per acre.
Hyotan	Gummy Stem Blight			ganone or water per dere.
1	(Didymella bryoniae)			Apply preventatively or when
Momordica spp.:				the first disease symptoms are
Balsam Apple	Phytophthora Blight			visible and reapply every 7 – 14
Balsam Pear	(Phytophthora capsici)			days.
Bitter Melon	Fusarium spp.	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25
Chinese				- 1 pounds per 100 gallons of
Cucumber	Phytophthora spp.			water, thoroughly soaking the
Muskmelon:	5 4 4			growing media and root zone.
Cantaloupe	Pythium spp.			Apply during or shortly after
Casaba	Dhimantania			transplant to reduce transplant
Crenshaw Melon	Rhizoctonia spp.			shock, suppress soilborne
Golden Pershaw				disease and improve root growth. Multiple drench
Melon				applications can be made on a
Honeydew Melon				10 – 14 day interval.
Honey Balls		In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pounds of BACIX
Mango Melon			0.20	in 100 gallons of water and
Persian Melon				apply at 5 – 15 gallons per
Pineapple Melon				acre, directing the spray into
Santa Clause				the seed furrow just before the
Melon				seeds are covered.
Snake Melon		Plant Dip	0.25 – 1 lb.	Mix 0.25 – 1 pounds of BACIX
Summer Squash:				in 100 gallons of water and use
Crookneck Squash				as a pre-plant dip immediately
Scallop Squash		Ob a mai - ti	0.05 4."	prior to transplant.
Straight Neck		Chemigation	0.25 – 1 lb.	Apply through irrigation
Squash				immediately after transplant
Vegetable Marrow				and at 14-day intervals or begin 14 days after transplant when
Zucchini				soil drench applications are
				used.
Winter Squash:				
Acorn Squash				
Butternut Squash				
Calabaza				
Hubbard Squash Spaghetti Squash				
opagnetti oquasii				
And other cucurbit				
vegetables			<u> </u>	
Fruiting	Bacterial Blight	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 25 –
Vegetables,	(Xanthomonas spp.)	·		100 gallons of water per acre or
including:				at first sign of disease
Familia :- t	Bacterial Spot			symptoms. Increase water
Eggplant Okra	(Xanthomonas spp.)			volume as plant size increases.
n ukra	İ		I	

Pepper	Bacterial Speck		Τ	Reapply on a 7 – 10 day
Tomato	(Pseudomonas syringae)			interval depending on plant
Tomatillo	(coadomenae symigae)			growth and disease pressure.
Groundcherry	Black Mold			Use shorter spray intervals for
	(Alternaria alternata)			greenhouse cucurbits when
	Forly Blight	Γ-1: / Λ:1\	0.05 4 15	under high disease pressure.
	Early Blight (Alternaria solani)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5
	(vitternana solarii)			gallons of water per acre.
	Gray Mold			gameno en mater per aerer
	(Botrytis cinerea)			Apply preventatively or when
	Lata Diiaht			the first disease symptoms are
	Late Blight (Phytophthora capsici)			visible and reapply every 7 – 14
	(i Trytophthora capsici)			days.
	Powdery Mildew			
	(Erysiphe spp.)			
	(Leveillula taurica)			
	(Oidiopsis taurica)			
	(Sphaerotheca spp.)			
	Target Spot			
	(Corynespora cassiicola)			
	Fusarium spp.	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25
	Phytophthora spp.			 1 pound per 100 gallons of water, thoroughly soaking the
	Гпуюришога эрр.			growing media and root zone.
	Rhizoctonia spp.			Apply during or shortly after
				transplant to reduce transplant
	Verticillium spp.			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
		Ola a di di	0.05 1."	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
	<u> </u>			used.
Grapes	Powdery Mildew (Uncinula necator)	Foliar	0.25 – 1 lb.	Apply preventively in 50 – 100
	(Unumula Necalul)			gallons of water per acre or the first signs of disease
	Angular Leaf Spot			symptoms.
	(Mycosphaerella			
	angulata)			Repeat applications at 7 – 14
	Anthropos			day intervals depending on
	Anthracnose (Elsinoë ampelina)			crop growth and disease pressure.
	(Lisinos ampelina)			prossure.
	Botrytis Bunch Rot			
	(Botrytis cinerea)			

Black Rot (Guignardia bidwellii) Downy Mildew (Plasmopara viticola) Eutypa (Eutypa lata) Leaf Blight (Pseudocercospora vitis) Phomopsis Fruit Rot (Phomopsis viticola) Ripe Rot (Colletotrichum gloeosporioides) Sour Rot (Alternaria tenuis) (Aspergillus spp.) (Botrytis cinerea) (Cladosporium herbarum) (Penicillium spp.) (Rhizopus arrhizus) Powdery Mildew (Erysiphe graminis)	Foliar (Ground)		
(Erysiphe graminis)	Foliar (Ground)		
(Erysiphe graminis)		0.25 – 1 lb.	Apply preventatively in 25 –
(Oidium spp.) (Podosphaera spp.) (Sphaerotheca spp.) Rust (Puccinia spp.)	, ,		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.
Downy Mildew (Pseudoperonospora humuli) Powdery Mildew (Sphaerotheca macularis)	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.
Downy Mildew	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 –
(Bremia lactucae) (Peronospora spp.) Bacterial Blight/Rot (Xanthomonas spp.) Cercospora Leaf Spot (Cercospora spp.)			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 (Sclerotinia sclerotiorum)	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.
	Jowny Mildew Bremia lactucae) Peronospora spp.) Bacterial Blight/Rot Xanthomonas spp.) Bercospora Leaf Spot Cercospora spp.) ate Blight Septoria apiicola)	Foliar (Ground) Foliar (Ground) Feronospora spp.) Facterial Blight/Rot Xanthomonas spp.) Fercospora Leaf Spot Cercospora spp.) ate Blight Septoria apiicola) Fink Rot Sclerotinia sclerotiorum) Fowdery Mildew	Foliar (Ground) O.25 – 1 lb. Peronospora spp.) Facterial Blight/Rot Xanthomonas spp.) Fercospora Leaf Spot Cercospora spp.) ate Blight Septoria apiicola) In-Furrow O.25 – 1 lb. In-Furrow O.25 – 1 lb.

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Rhubarb	(Sclerotinia minor)			
Spinach	(Sclerotinia sclerotiorum)			
Swiss Chard	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Watercress	White Rust			
	(Albugo occidentalis)	F !: (0 !)	0.05 4.11	4 1
Legume	Bacterial Blight	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 –
Vegetables	(Xanthomonas			100 gallons of water or when
(Succulent or	campestris)			environmental conditions are
Dried) (Except				conducive to rapid disease
Soybean),	Gray Mold			development. Reapply on a 7-
including:	(Botrytis cinerea)			day interval or as needed.
Chieknes	Pythium (Aerial Blight			
Chickpea Dry Beans	Phase)			
Garbanzo Beans	(<i>Pythium</i> spp.)			
Green Beans	(<i>Pytiliaiti</i> spp.)			
Lentils	Powdery Mildew			
Lima Beans	(<i>Erysiphe</i> spp.)			
Peas	(Lrysiprie spp.)			
Shell Beans	Rust			
Snap Beans	(<i>Puccinia</i> spp.)			
Shap Boaris	(Uromyces			
	appendiculatus)			
	White Mold			
	(Sclerotinia sclerotiorum)			
	Fusarium spp.	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in
				100 gallons of water and apply
	Phytophthora spp.			at 5 – 15 gallons per acre,
				directing the spray into the
	Pythium spp.			seed furrow just before the
	' ''			seeds are covered.
	Rhizoctonia spp.			
Mint and other	Downy Mildew	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 50 –
Herbs/Spices,	(Peronospora spp.)			100 gallons of water per acre or
including:				at first sign of disease
	Powdery Mildew			symptoms. Reapply on a 7 – 10
Angelica	(Erysiphe spp.)			day interval depending on plant
Balm				growth and disease pressure.
Basil	Rust	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
Borage	(Puccinia menthae)	, ,		this product in a minimum of 5
Burnet				gallons of water per acre.
Camomile				· .
Catnip				Apply preventatively or when
Chervil				the first disease symptoms are
Chive				visible and reapply every 7 – 14
Clary				days.
Coriander				
Costmary				
Culantro				
Curry				
Dillweed				
Horehound				
Hyssop				
Lavender				
Lemongrass				
Lovage				
Marjoram				
Nasturtium				
Parsley (dried)				
Rosemary		1		
Sage				

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Savory (summer				
and winter)				
Sweet Bay				
Tansy				
Tarragon				
Thyme				
Wintergreen Woodruff				
Wormwood				
Oilseeds (Except	Bacterial Pustule	Foliar (Ground)	0.25 – 1 lb.	To optimize disease control
Cotton),	(Xanthomonas spp.)	Tollar (Ground)	0.25 - 1 10.	and maximize yields, apply this
including:	(Xantromorad opp.)			product preventatively in 15 –
o.u.ug.	Bacterial Speck			40 gallons of water per acre.
Canola	(Pseudomonas syringae			gamene er mater per derei
Castor Oil Plant	pv. glycinea)			Consult your local Extension
Flax Seed				Specialist or Crop Consultant
Rapeseed	Brown Spot			regarding the optimum timing of
Safflower	(Septoria glycines)			fungicide applications.
Sesame		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
Sunflower	Cercospora Leaf Spot	,		this product in a minimum of 5
	(Cercospora spp.)			gallons of water per acre.
				·
	Downy Mildew			Apply preventatively or when
	(Peronospora			the first disease symptoms are
	manshurica)			visible and reapply every 7 – 14
				days.
	Pod and Stem Blight			
	(Diaporthe phaseolorum			
	var. sojae) (Phomopsis			
	longicolla)			
	White Mold/Sclerotinia			
	Stem Rot			
	(Sclerotinia sclerotiorum)			
Olive	Olive Knot	Foliar	0.25 – 1 lb.	Apply preventatively in 50 –
	(Pseudomonas			100 gallons of water per acre.
	savastanoi)			
	,			Repeat application at 7 – 14
				day intervals or as needed.
Ornamental	Anthracnose	Foliar	0.25 – 1 lb.	Apply preventatively in 50 –
Plants	(Colletotrichum spp.)			100 gallons of water and repeat
				on 7 – 14 day intervals, or as
Herbaceous	Bacteria			needed.
Ornamentals	(<i>Erwinia</i> spp.)			
F 5	(Pseudomonas spp.)			Use this product to control
Flowering Plants	(Xanthomonas spp.)			certain diseases of container,
Foliage Plants	Block Spot of Daga			bench, flat, plug, bed, or field-
Wood:	Black Spot of Rose			grown ornamentals in
Woody	(Diplocarpon rosae)			greenhouses, shade houses,
Ornamentals Broadleaves,	Blossom Blight			outdoor nurseries, retail nurseries, and other landscape
Shrubs and trees	(Monilinia spp.)			areas.
Conifers,	(Worlining Spp.)			arous.
Shrubs and trees	Downy Mildew			
2250 and 11000	(Peronospora spp.)			
	(Plasmopara viburni)			
	, , , , , , , , , , , , , , , , , , , ,			
	Gray Mold			
	(Botrytis cinerea)			
	, ,			
	Leaf Spot			
II .	(Alternaria spp.)	l	I	

	(Cercospora spp.)			
	(Entomosporium spp.) (Myrothecium spp.) (Septoria spp.)			
	Powdery Mildew (Erysiphe spp.) (Oidium spp.) (Podosphaera spp.) (Sphaerotheca spp.)			
	Rust (<i>Puccinia</i> spp.)			
	Scab (<i>Venturia</i> spp.)			
	Fusarium spp. Phytophthora spp.	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 – 1 pound per 100 gallons of water, thoroughly soaking the
	Pythium spp.			growing media and root zone. Apply during or shortly after transplant to reduce transplant
	Rhizoctonia spp.			shock, suppress soilborne disease and improve root
	Verticillium spp.			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.
Peanut	Aspergillus Crown Rot (Aspergillus niger)	Foliar	0.25 – 1 lb.	Apply preventatively in 50 – 100 gallons of water and repeat on 7 – 14 day intervals, or as
	Rhizoctonia Foliar Blight, Peg, and Root Rot (<i>Rhizoctonia solani</i>)			needed.
	White Mold (Sclerotium rolfsii)			
	Aspergillus Crown Rot (Aspergillus niger)	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 – 1 pound per 100 gallons of water, thoroughly soaking the
	Fusarium spp.			growing media and root zone. Apply during or shortly after
	Phytophthora spp.			transplant to reduce transplant shock, suppress soilborne
	Pythium spp. Rhizoctonia spp.			disease and improve root growth. Multiple drench applications can be made on a
	Verticillium spp.	In-Furrow	0.25 – 1 lb.	10 – 14 day interval. Mix 0.25 – 1 pound of BACIX in
	White Mold (Sclerotium rolfsii)	iii i dilow	0.20 - 1 lb.	100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the

		<u> </u>	T	and furrous just before the
				seed furrow just before the seeds are covered.
Pome Fruits, including: Apple Crabapple Loquat Mayhaw Pear Pear, oriental Quince	Powdery Mildew (Podosphaera leucotricha) Alternaria Blotch (Alternaria mali) Apple Scab (Venturia inaequalis)	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 shorter
Quince	Bitter Rot (Colletotrichum spp.)			spray intervals when conditions are conducive to rapid disease development.
	Black Rot/Frogeye Leaf Spot (<i>Botryosphaeria obtusa</i>)			To treat Fire Blight (<i>Erwinia</i> amylovora), tank mix this product with another registered fungicide for more effective
	Bot Rot (Botryosphaeria dothidea)			control.
	Brooks Spot (Mycosphaerella pomi)			
	Bull's Eye Rot (Neofabraea spp.)			
	Cedar-Apple Rust (Gymnosporangium juniper-virginianae)			
	Fire Blight (<i>Erwinia amylovora</i>)			
	Flyspeck (Zygophiala jamaicensis)			
	Sooty Blotch (Geastrumia polystigmatis) (Leptodontium elatius) (Peltaster fructicola)			
	White Rot (Botryosphaeria dothidea)			
Root and Tuber Vegetables (Except Sugar Beets), including:	Bacterial Leaf Blight (Xanthomonas campestris)	Foliar	0.25 – 1 lb.	Apply preventatively in 25 – 100 gallons of water and repeat on 5 – 10 day intervals, or as needed.
Garden Beets Carrots Cassava	Black Root Rot/Black Crown Rot (<i>Alternaria</i> spp.)			Begin applications soon after emergence or transplant and when conditions are conducive
Ginger Ginseng Horseradish Potato	Downy Mildew (Peronospora spp.) Early Blight			to disease development. Use higher rates and shorter intervals when conditions favor rapid disease development.
Radish Sweet potato Yams Turnip	(Alternaria spp.) Gray Mold (Botrytis cinerea)	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25 – 1 pound per 100 gallons of water, thoroughly soaking the
. 3111112	(Dony no on lorda)		l	growing media and root zone.

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	Late Blight (Phytophthora infestans) Powdery Mildew			Apply during or shortly after transplant to reduce transplant shock, suppress soilborne disease and improve root
	(Erysiphe spp.)			growth. Multiple drench applications can be made on a
	White Mold (Sclerotinia sclerotiorum)	In-Furrow	0.25 – 1 lb.	10 – 14 day interval. Mix 0.25 – 1 pound of BACIX in 100 gallons of water and apply
	Clubroot (<i>Plasmodiophora</i> <i>brassicae</i>)			at 5 – 15 gallons per acre, directing the spray into the seed furrow just before the seeds are covered.
	Common Scab (Streptomyces scabies)	Chemigation	0.25 – 1 lb.	Apply through irrigation immediately after transplant and at 14-day intervals or begin
	Fusarium spp.			14 days after transplant when soil drench applications are
	Phytophthora spp.			used.
	Pythium spp.			
	Rhizoctonia spp.			
	Verticillium spp.			
Soybean	Aerial Web Blight (Rhizoctonia solani) Alternaria Leaf Spot	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.
	(Alternaria spp.)			Consult your local Extension
	Anthracnose (Colletotrichum truncatum)			Specialist or Crop Consultant regarding the optimum timing of fungicide applications.
	Asian Soybean Rust (Phakopsora pachyrhizi)			To treat Asian Soybean Rust (<i>Phakopsora pachyrhizi</i>), tank mix this product with another
	Brown Spot (Septoria glycines)			registered fungicide for more effective control.
	Cercospora Blight (Cercospora kikuchii)	Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply this product in a minimum of 5 gallons of water per acre.
	Frogeye Leaf Spot (Cercospora sojina)			Apply preventatively or when the first disease symptoms are visible and reapply every 7 – 14
	Pod and Stem Blight (Diaporthe spp.)			days. To treat Asian Soybean Rust
	Septoria Brown Spot (Septoria glycines)			(<i>Phakopsora pachyrhizi</i>), tank mix this product with another registered fungicide for more
	White Mold (Sclerotinia sclerotiorum)			effective control.
	Fusarium spp.	In-Furrow	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in
	Phytophthora spp.			100 gallons of water and apply at 5 – 15 gallons per acre, directing the spray into the
	Pythium spp.			seed furrow just before the seeds are covered.
	Rhizoctonia spp			

Stone Fruits, including: Apricot Cherry, sweet and tart Nectarine Peach Plum Plumcot Prune (fresh) Bacterial Spot Brown Rot Blossom Blight and Fruit Rot (Monilinia spp.) Alternaria Spot/Fruit Rot (Alternaria alternata) Foliar Foliar 0.25 – 1 lb. Apply preventively in 50 – gallons of water when conditions are conducive disease development. Apply on a 7 – 10 day spray integrate or as needed. Bacterial Canker (Pseudomonas spp.) Bacterial Spot (Pseudomonas spp.) Brown Rot Blossom Blight and Fruit Rot (Monilinia spp.) Cercospora Leaf Spot Apply preventively in 50 – gallons of water when conditions are conducive disease development. Apply on a 7 – 10 day spray integrate or as needed. Bacterial Blight – Apply pharvest before Fall rains. Brown Rot Blossom Blight Apply at early bloom and repeat on a 7-day schedul through petal fall or as needed. Powdery Mildew – Begin applications at popcorn signal applications at popcorn signal applications at popcorn signal applications at 7-interval.	to pply erval ost- it –
Apricot Cherry, sweet and tart Nectarine Peach Plum Plumcot Prune (fresh) Bacterial Spot (Pseudomonas spp.) Brown Rot Blossom Blight and Fruit Rot (Monilinia spp.) Conditions are conducive disease development. Apon on a 7 – 10 day spray into or as needed. Bacterial Canker (Pseudomonas spp.) Bacterial Blight – Apply pharvest before Fall rains. Brown Rot Blossom Blight Apply at early bloom and repeat on a 7-day schedulathrough petal fall or as needed. Prune (fresh) Conditions are conducive disease development. Apon on a 7 – 10 day spray into or as needed. Bacterial Blight – Apply pharvest before Fall rains. Brown Rot Blossom Blight Apply at early bloom and repeat on a 7-day schedulathrough petal fall or as needed. Brown Rot Blossom Blight and Fruit Rot (Monilinia spp.)	oply erval ost- it –
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Blight and Fruit Rot (Monilinia spp.) Powdery Mildew – Begin applications at popcorn si	
(<i>Monilinia</i> spp.) Powdery Mildew – Begin applications at popcorn si	
Cercospora Leaf Spot Land repeat on a 7-interva	
	l or as
(Cercospora spp.) needed.	
Charry Loof Bat	ot
Cherry Leaf Rot Scab- Begin applications (Blumeriella jaapii) petal fall and repeat on a	
day interval or as needed	
Gray Mold	
(Botrytis cinerea)	
Jacket Rot, Green Fruit	
Rot (Patritia ainara)	
(Botrytis cinerea, Monilinia spp.,	
Sclerotinia sclerotiorum)	
Powdery Mildew	
(Podosphaera spp.)	
(Sphaerotheca pannosa)	
Rust	
(Tranzschelia discolor)	
(Tranzosnona diocetor)	
Rusty Spot	
(Podosphaera	
leucotricha)	
Soot	
Scab (<i>Cladosporium</i>	
carpophilum)	
Shot Hole	
(Wilsonomyces	
carpophilus)	400
Strawberry Anthracnose Foliar 0.25 – 1 lb. Apply preventively in 50 – gallons of water when	- 100
(Colletotrichum spp.) gallons of water when conditions are conducive	to
Botrytis disease development. Ap	
(Botrytis cinerea) on a 7 – 10 day spray into	
or as needed.	
Leaf Spot	
(Mycosphaerella	
fragariae)	
Phomopsis Leaf Blight	
(Phomopsis obscurans)	

	Dowdon, Mildow		T	
	Powdery Mildew			
-	(Sphaerotheca macularis)	0.10	0.05 4.11	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Black Root Rot	Soil Drench	0.25 – 1 lb.	Apply at a concentration of 0.25
	(Rhizoctonia spp.)			- 1 pound per 100 gallons of
	(<i>Pythium</i> spp.)			water, thoroughly soaking the
	(<i>Fusarium</i> spp.)			growing media and root zone.
	(Cylindrocarpon spp.)			Apply during or shortly after
				transplant to reduce transplant
	Phytophthora Root Rot			shock, suppress soilborne
	and Crown Rot			disease and improve root
	(<i>Phytophthora</i> spp.)			growth. Multiple drench
	(1 Try topharora opp.)			applications can be made on a
	Verticillium Wilt			10 – 14 day interval.
		Diam's Diam	0.05 4.15	
	(Verticillium spp.)	Plant Dip	0.25 – 1 lb.	Mix 0.25 – 1 pound of BACIX in
	Fusarium spp.			100 gallons of water and use
				as a pre-plant dip immediately
	Pythium spp.			prior to transplant.
		Chemigation	0.25 – 1 lb.	Apply through irrigation
	Rhizoctonia spp.			immediately after transplant
				and at 14-day intervals or begin
				14 days after transplant when
				soil drench applications are
				used.
Sugar Beets	Powdery Mildew	Foliar	0.25 – 1 lb.	Apply preventatively in 15 – 40
Jagai Books	(Erysiphe betae)	i dilai	0.20 1 10.	gallons of water per acre by
	(Erysiphe belae)			ground or air.
	(Erysiphe polygoni)			ground or air.
	Loof Spot			Consult your local Extension
	Leaf Spot			Consult your local Extension
	(Cercospora beticola)			Specialist or Crop Consultant
				for optimum timing of fungicide
	Ramularia			applications.
	(<i>Ramularia</i> spp.)			
	Rust			
	(Uromyces betae)			
Sugarcane	Brown Rust	Foliar (Ground)	0.25 – 1 lb.	Apply preventatively in 15 – 40
	(Puccinia melanocephala)			gallons of water per acre by
				ground or air.
	Orange Rust			
	(Puccinia kuehnii)			Consult your local Extension
	· ,			Specialist or Crop Consultant
				for optimum timing of fungicide
				applications.
		Foliar (Aerial)	0.25 – 1 lb.	For aerial applications, apply
		· onar (nonar)	0.20 1 10.	this product in a minimum of 5
				gallons of water per acre.
				ganons or water per acre.
				Apply proventatively or when
				Apply preventatively or when
				the first disease symptoms are
				visible and reapply every 7 – 14
				days.
Tobacco	Blue Mold	Foliar	0.25 – 1 lb.	Apply preventatively in a
	(Peronospora tabacina)			minimum of 50 gallons of water
				per acre.
				Consult your local Extension
ı I			1	
1				Specialist of Crop Consultant
				Specialist or Crop Consultant for optimum timing of fungicide
				for optimum timing of fungicide
_	Fusarium son	Plant Din	0.25 <u>_ 1 lh</u>	for optimum timing of fungicide applications.
	Fusarium spp.	Plant Dip	0.25 – 1 lb.	for optimum timing of fungicide applications. Mix 0.25 – 1 pound of BACIX in
	Fusarium spp. Phytophthora spp.	Plant Dip	0.25 – 1 lb.	for optimum timing of fungicide applications.

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

Scab (Elsinoë mangiferae)		
Sigatoka (<i>Mycosphaerella fijiensis</i>)		

Application Rates for Seed Treatment:

Type of seed	Disease	Lbs. of product/100 Gallons of water	Notes
True Seed Crops	Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Verticillium 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.
In-Furrow Seed Treatment At-Planting	Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Verticillium spp.	0.25 – 1 lb.	Apply sufficient diluted product to wet the soil covering seeds. Apply by spray, furrow and/or in-furrow irritation.
Dip Treatment For Tubers At-Planting	Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Verticillium 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:	1 <u>00.0%</u>

^{*}Contains not less than 2 X 108 cfu/g of product.

KEEP OUT OF REACH OF CHILDREN CAUTION

0.1011011				
	FIRST AID			
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. 			
	Do not give anything by mouth to an unconscious person.			
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. 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. For medical emergencies, call the poison control center at 1-800-222-1222.

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 24 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.

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 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.