Natural Products For Your Organic Garden, Farm and Livestock!

Thank You For Growing With Us!
1979-2019
WHY CHOOSE ARBICO ORGANICS?

HISTORY & STABILITY
This year, we celebrate forty years of being in business and servicing our customers.

ARBICO Organics began in 1979 when Rick Frey embarked on a new endeavor – rearing and selling insects that parasitize developing flies (Fly Eliminators™) out of his carport closet in Tucson, Arizona. Rick’s wife Sheri had a passion for the environment and the two teamed up to become pioneers of organic growing promoting their philosophy of “bio-balance” by offering customers sustainable pest control alternatives.

ARBICO IS THE “SOURCE”
We proudly rear insects at our “insectary” in Catalina, AZ.

In 1984, as demands for the Fly Eliminators grew, ARBICO expanded to a 10 acre facility, nestled in the Catalina Mountains north of Tucson, AZ. Our facility includes our insectary where we continue to rear Fly Eliminators and Assassin Bugs. As insect growers, we strive to maintain the consistency, affordability and quality of our products.

QUALITY & SELECTION
We have an expanded product line to meet our customers’ diversified needs.

Throughout the 1990’s and 2000’s we have added over 20 different kinds of insects and thousands of other products to support organic and natural growing. Our team evaluates and procures the highest quality products for your home, garden, agricultural and livestock needs.

IPM SPECIALISTS & CUSTOMER SERVICE
Our team continues to grow to support our customers from start-to-finish.

In 2011, the company grew once again and ARBICO attained another location in Oro Valley, AZ that includes a retail location and houses our team of specialized personnel that offer our customers knowledge and support. Whether you’re a novice gardener or a commercial grower, our IPM Specialists and Product Experts can help identify pest problems and recommend solutions that are specifically tailored to your growing needs.

If you are looking for a “full out” start-to-finish method of growing sustainably using IPM methods, you have come to the right place! Our live on-staff team members are available to answer your calls and provide you with a free consultation during our weekday business hours. You can also email questions anytime to “Dr. Buglady” at drbuglady@arbico.com. We look forward to serving you now and in the future.

GUARANTEED LIVE DELIVERY OF BENEFICIAL INSECTS
Should your insects perish while en route, we will gladly resend another order. We want you to be satisfied with your purchase. If for any reason you are not satisfied with your purchase, you can return the item(s) to us within 30 days. Our Customer Care personnel will be happy to assist you with your return.

After 40 years, we continue to challenge ourselves to grow the best insects we can and to deliver those insects and additional organic farm & garden supplies to our customers. What started with one bug has grown so much more and we continue to thank the support of our customers and our community of family, friends and coworkers who have made this all possible!
Solutions For Summer Pests!

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- Milky Spore Powder – Page 23
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ATTRACTANTS & POLLINATION

Introduction to Beneficials Kit

This “One-Of-A-Kind” Kit Provides An Array Of Products To Prevent, Monitor, Trap & Control Pests While Educating, Enhancing & Promoting Beneficial Insects.

TARGET: Growers who want a start to finish comprehensive solution to pests.

DESCRIPTION: This kit is designed to help you learn more about the good and bad insects that are found in your garden. In addition, it contains the building blocks that will help you attract and keep beneficial insects in your garden:

- Garden Insects of North America book by Whitney Cranshaw
- Green Lacewing (Chrysoperla rufilabris) - 1,000 Eggs
- Good Bug Power Meal - 1/2 lb.
- Good Bug Blend, Seeds for Beneficial Insect Habitats - 1/2 lb.
- PredaLure - 2 pack
- ARBICO Organics Yellow Insect Traps - 5”x 7” - 5 pack
- ARBICO Organics Blue Insect Traps - 5”x 7” - 5 pack

1000000 Introduction To Beneficials Kit $60.00

SAVE OVER $15.00

Predalure™

Attract Ladybugs, Green Lacewings & Many Other Beneficial Insects Into Your Garden With Predalure.

TARGET: Attract predatory beneficial insects such as green lacewings, ladybugs, etc.

DESCRIPTION: This lure uses a special combination of pheromones and botanicals to attract and keep desirable beneficial predators in your garden.

SUGGESTED USE: Hang one at crop height in your garden or in a tree. Lures last approximately one month.

1231319 Predalure - 2 Pack Lures $9.25
1231322 Predalure - 10 Lures $43.00
1231321 Predalure - 25 Lures $90.00

ARBICO Organics™ Good Bug Blend

Flowering Beneficial Insect Habitat – Good for People, Too!

TARGET: Help keep your beneficial insects from flying away.

DESCRIPTION: Provide beneficial insects with a source of pollen and nectar year-round in order to feed and reproduce. ARBICO’s Good Bug Blend is a combination of yellow, red, crimson, rose, white clovers, grizzly alfalfa, white alyssum, nasturtium, white yarrow, carrot, dill, daikon and celery seeds.

SUGGESTED USE: 1 lb./2,000 sq. ft. or 20 lbs./acre. The first blooms will appear within 45-90 days.

1134000 Good Bug Blend - 1/2 lb. Bag $5.95
1134001 Good Bug Blend - 1 lb. Bag $9.75
1134002 Good Bug Blend - 10 lb. Bag $67.95
1134003 Good Bug Blend - 50 lb. Bag $289.00

ARBICO Organics™ Good Bug Power Meal

Beneficial Insect Attractant & Food.

TARGET: Attract and sustain beneficial insects and butterflies.

DESCRIPTION: Attract and keep beneficial insects in your garden with this balanced food supplement that is composed of proteins, fats, fibers, ash, calcium, phosphorus, sodium, amino acids, vitamins, lactose and sucrose.

SUGGESTED USE: Dry or wet application can be made. For dry applications you can directly dust your plants. For wet applications, mix 4 oz./1 gal. of water to treat 3,000 sq. ft. using a garden sprayer. For 1/2 acre, mix 1/2 lb. in 5-10 gal. of water. This product can also be applied as a paste or slurry. Simply add water until desired consistency is reached and use a clean foam or bristle paintbrush to apply to plants. As a nectar source, mix 1 oz. with 1 qt. of water and place in butterfly feeders.

1133001 Good Bug Power Meal - 1/2 lb. Bag $6.50
1133002 Good Bug Power Meal - 1 lb. Bag $11.50

Monterey Lady Bug Attractant

Attract Beautiful & Beneficial Ladybugs!

TARGET: Gardens lacking beneficials, with mild to moderate pest infestations.

DESCRIPTION: This specialized product contains pheromones that will send out signals to and attract garden friendly ladybugs! Contains 3 ready-to-use lures!

SUGGESTED USE: Place in orchards, gardens, greenhouses and nurseries during growing seasons. Wear gloves to avoid touching the lure. Hang where pest infestations are present and replace lure every 2-3 weeks.

1281605 Lady Bug Attractant - 3 Lures Per Pack $11.50
Natupol Bumblebee Hives

Put These Portable Hives Where You Need Them Most To Greatly Improve Pollination.

TARGET: For use indoors in greenhouses, hoop houses and other indoor growing, as well as smaller gardens and orchards.

DESCRIPTION: By introducing gentle bumblebees to your crops, you can improve fruit quality, increase productivity, save labor costs by reducing hand pollination and provide pollination that is independent of weather conditions. These hives house the Bombus impatiens species of bumblebees and contain a colony with a queen, workers and brood (pupae, eggs and larvae). The Natupol Excel and Natupol Excel Startup hives replace the now-discontinued Natupol Class-A, Class-B & Class-C hives. These new hives have carefully considered innovations in design that keep the bees comfortable inside their hives and make it easier for them to enter and exit. Both have been also developed for use under artificial light and in warmer conditions to serve crops with large numbers of flowers per sq. ft.

SUGGESTED USE:

Natupol Excel: Replaces the Natupol Class-A & Class-C hives. An ideal choice greenhouses that operate consistently; especially so if they are at the beginning of the planting cycle before full bloom. Also excellent for consistently growing hydroponic operations. This hive may take longer to reach its maximum efficiency level than the Natupol Excel Startup, but will retain optimum performance over the course of time. Covers 1,000-15,000 sq. ft. and last for about 9 weeks.

Natupol Excel Startup: Replaces Natupol Class-B hives. This larger size colony will provide intense pollination from day 1 and reach maximum efficiency rapidly, great for those crops that need heavy pollination in a short period of time. A wonderful choice for greenhouses that are near to or in full bloom and need thorough pollination immediately. Covers 1,000-15,000 sq. ft. and last for about 9 weeks.

Honey Bee Magnet

When Placed Where Blooms Are Starting, The Honey Bee Magnet Will Increase The Number Of Pollinators That Come To Your Area.

TARGET: Honey Bees.

DESCRIPTION: The Honey Bee Magnet attracts both honey bees and mason bees with non-toxic natural attractants – fruit volatiles that researchers identified as pheromone lures for bees. When placed where blooms are starting, the Honey Bee Magnet will increase the number of pollinators that come to your area. If you want increased pollination – which means increased fruit, berry and vegetable production – just hang one lure per large tree or one lure per 200 sq. ft. in your garden or field at the start of bloom. The Honey Bee Magnet will last for 2 weeks.

SUGGESTED USE: This simple lure has several advantages over a liquid spray:

- No mess or cleanup
- No need to reapply if bloom lasts 2 weeks or less
- No need to reapply if it rains after 1-3 days

Heterorhabditis indica

Protect Your Hives From Small Hive Beetle.

TARGET: Small Hive Beetles (Aethina tumida).

DESCRIPTION: Now, more than ever, it is important to protect our bees and other pollinators. Using Beneficial Nematodes to control hive beetles is cost effective and eco-friendly.

Heterorhabditis indica is a heat tolerant, entomopathogenic nematode that attacks pre-pupal stages of small hive beetle in the soil. By suspending the nematodes in water and applying to the soil below and around the hive, the nematodes quickly seek out the pupal stage and attack, typically entering the pest and killing it within 24-48 hours. H. indica are a virulent and aggressive species of nematodes and work best when the strength of the hive is maintained.

SUGGESTED USE: Remove bag from outer package and fill with water. Once filled, agitate the gel and strain over pint sized container. Once over the container, pour another half pint of water over gel to ensure all nematodes strain out. Take pint of liquid and mix into 5 gallons of water, agitate and apply to infected area. Irrigate after treatment. Use 5 million for every 10 hives.

Call 1-800-827-2847 or Order Online www.arbico-organics.com
BENEFICIAL INSECTS & MITES

GENERALISTS

Green Lacewings - *Chrysoperla rufilabris, Chrysoperla sp.*

![Image](https://example.com/ladybugs)

**Reflected To As “Aphid-Lions,” These Generalists Have Amazing Dispersal Abilities!**

**TARGET:** Aphids, mealybugs, spider mites, leafhopper nymphs, moth eggs, scale thrips, and other soft-bodied insects. Lacewing larvae paralyze their prey with venom and then draw out the body fluids of the pest into their large hollow jaws. Each larval larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

**DESCRIPTION:** Lacewings are available in all three life stages: egg, larva and adult. Lacewing larvae paralyze their prey with venom and then draw out the body fluids of the pest into their large hollow jaws. Each larval larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

**Temperature:** Minimum: 60°F; Best: 75-90°F

**Relative Humidity:** 30-50%

**Release Rate:** Every 7-10 days

<table>
<thead>
<tr>
<th>Eggs</th>
<th>Larvae</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>~1,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~2-4/sq. ft.</td>
<td>$15.60</td>
</tr>
<tr>
<td>~5,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~2,000-40,000/Acre</td>
<td>$24.30</td>
</tr>
<tr>
<td>~10,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~1,000-2,000/Acre</td>
<td>$33.75</td>
</tr>
</tbody>
</table>

**SUGGESTED USE (Depending upon level of infestation):**

**Ladybugs - *Hippodamia convergens***

**Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.**

**TARGET:** Aphids, chinbug bugs, asparagus beetle larvae, thrips, alfalfa weevil larvae, bean thrips, grape root worm, Colorado potato beetle larvae, whiteflies, mites and many other soft-bodied insects and eggs.

**DESCRIPTION:** One of the most common of all beneficial insects, ladybugs are shipped to you in the adult stage. Each adult consumes about 5,000 aphids. The number of ladybugs per shipment is approximate.

**SUGGESTED USE (Depending upon level of infestation):** Shipped as adults. Release prior to or at the onset of infestation. Use more or less depending on your level of infestation and crop.

**Temperature:** Moderate: 62-88ºF

**Relative Humidity:** Minimum 40%

- **1112525** ~1,500 - Starter Size ~800 sq. ft. ~$12.95
- **1112511** ~4,500 - Half Pint ~2,500 sq. ft. ~$22.50
- **1112512** ~9,000 - Pint ~5,000 sq. ft. ~$29.00
- **1112513** ~18,000 - Quart ~10,000 sq. ft. ~$43.00
- **1112514** ~35,000 - 1/2 Gallon ~1/2 acre ~$71.00
- **1112515** ~70,000 - 1 Gallon ~1 acre ~$125.00

**Expedited Shipping Required**

**Cannot be shipped to the following states:** HI, PR, VI, GU, AS, PW

**Minute Pirate Bug - *Orius insidiosus***

**Excellent General Predator In Field Crops & Greenhouses.**

**TARGET:** Thrips, whiteflies, spider mites, aphids, psyllids, small caterpillars, insect eggs and others.

**DESCRIPTION:** Minute Pirate Bugs (*Orius spp.*) also known as flower bugs, are one of the most common general predators in field crops. Their diet consists of a variety of small pests. They are also known to attack adult thrips.

**SUGGESTED USE (Depending upon level of infestation):** Sold as adults. For maintenance, release 1 to 2 Orius per plant in greenhouses or 1 to 4 Orius per plant in hot spot areas outdoors. When treating a serious whitefly, aphid, thrips or other pest infestation, we recommend releasing up to 500 Orius per 250 sq. ft. area. For field crops, we recommend releasing between 100 and 2,000 Orius per acre, depending on the level of infestation.

**Temperature:** 64-82ºF

**Relative Humidity:** Moderate ~60%

<table>
<thead>
<tr>
<th>Eggs</th>
<th>Larvae</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>~500 Count</td>
<td>~500 Count</td>
<td>$53.00</td>
</tr>
<tr>
<td>~1,000 Count</td>
<td>~1,000 Count</td>
<td>$88.00</td>
</tr>
<tr>
<td>~2,000 Count</td>
<td>~2,000 Count</td>
<td>$154.00</td>
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</table>

**Overnight Shipping Required**

**Cannot be shipped to the following states:** HI, PR, VI, GU, AS, PW

<table>
<thead>
<tr>
<th>Eggs</th>
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<th>Price</th>
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<tbody>
<tr>
<td>~1,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~2-4/sq. ft.</td>
<td>$15.60</td>
</tr>
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<td>~5,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~2,000-40,000/Acre</td>
<td>$24.30</td>
</tr>
<tr>
<td>~10,000 Eggs/week for min. 3 shipments (Price Per Shipment)</td>
<td>~1,000-2,000/Acre</td>
<td>$33.75</td>
</tr>
</tbody>
</table>

**Larvae & Adults Require OVERNIGHT Shipping**

*FREE SHIPPING in the contiguous 48 United States. Quantities of 1,000-25,000 eggs ship via USPS Priority only. Quantities of 50,000-250,000 ship via FedEx 2nd Day Air only. Expedited shipping available for an additional fee.

**FREE SHIPPING does not apply to Green Lacewing Adults, Green Lacewing Larval Frames and Green Lacewing Larvae in Bottle.**

**Cannot be shipped to the following states:** HI, PR, VI, GU, AS, PW
**Assassin Bug - Zelus renardii**

*These Voracious Ambush Predators Will Stay In Your Garden & Devour A Wide Variety Of Pest Insects!*

**TARGET:** Leafhoppers, aphids, early instar caterpillars, flies, mites in conjunction with mite predators, and most other pests.

**DESCRIPTION:** These hardworking ambush predators are an excellent addition to any growing area, large or small. Feasting on a variety of pests, assassin bugs stay put in order to knock out an infestation. With an approximate two-month lifespan, these generalist predators will live, eat and reproduce in the area of release. Zelus start eating immediately after hatching, and by the second instar they produce a resin on their legs, which turns them into a walking sticky trap. Once captured, their prey is pierced with their rostrum and a digestive enzyme is injected into the prey and the insect is quickly killed. This method of predation allows for Zelus to take out prey much larger than themselves. These generalist predators are voracious and can be used efficiently in gardens, fields, orchards and greenhouses.

**SUGGESTED USE** (Depending upon level of infestation): Use 500 eggs in a 2,000-3,000 square foot area every 2-3 weeks. Release preventively or at the first sign of an infestation. For heavy infestations, release 500-1,000 to 2,000-3,000 square foot area every 2-3 weeks. Release preventively or at the first sign of an infestation. Use 5-10 thousand eggs the first sign of in an infestation. For heavy infestations, release 500-1,000 thousand eggs every 2-3 weeks. Release preventively or at the first sign of an infestation. Use 5-10 thousand eggs the first sign of in an infestation.

**Temperature:** 55-110°F  
**Relative Humidity:** 10-75%

<table>
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<tr>
<td>1000105</td>
<td>55-110°F</td>
<td>≈250 Eggs</td>
<td>$30.00</td>
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<td>1000106</td>
<td>55-110°F</td>
<td>≈500 Eggs</td>
<td>$50.00</td>
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<tr>
<td>1000107</td>
<td>55-110°F</td>
<td>≈1,000 Eggs</td>
<td>$85.00</td>
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*FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day. Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

**SPECIALISTS - APHID PREDATOR**

**Aphid Parasite - Aphelinus abdominalis**

*These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!*

**TARGET:** Aphids, including potato (Macrosiphum euphorbiae), foxglove (Aulacorthum solani), green peach (Myzus persicae), California laurel (Eurhopalothrips umbellulatae), cotton (Aphis gossypii), melon (Aphis gossypii), bird cherry-oat (Rhopalosiphum padi), cereal (Sitobian avenae), and alfalfa aphids (Acyrthosiphon pisum).

**DESCRIPTION:** Not great fliers, these parasitic wasps nevertheless can hunt down and destroy large numbers of aphids. These predators will not only lay their eggs in aphid nymphs, they will eat those that they don’t parasitize. This secondary method of killing has a powerful effect on the aphid population and provides females with additional protein to develop more eggs. As the larvae matures inside the nymph, they feed on it, turning it into a mummy. The parasites are shipped in this stage; simply place them where the infestation is. The mature adult will chew a hole in the back of the mummy and emerge. This species is better able to handle high temperatures than the *Aphidius* species.

**SUGGESTED USE** (Depending upon level of infestation): Apply before the onset of infestation. Use ≈250/5,000 sq. ft. or ≈1,000-4,000/acre.

**Temperature:** 70-77°F  
**Relative Humidity:** Low-High =60-80%

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<tr>
<th>Temperature</th>
<th>Relative Humidity</th>
<th>Amount</th>
<th>Price</th>
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<tbody>
<tr>
<td>1101101</td>
<td>70-77°F</td>
<td>≈250 Mummies</td>
<td>$80.00</td>
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**Overnight Shipping Required**

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

**Aphid Predator - Aphidoletes aphidimyza**

*This Aphid Predator Attacks & Feeds On Over 60 Different Species Of Aphids.*

**TARGET:** Over 60 different aphids, including green peach aphids (Myzus persicae) and hemlock woolly adelgid (Adelges tsugae).

**DESCRIPTION:** Predacious to aphids, these insects will inject a paralyzing toxin into pest’s legs and feed on aphid body contents, causing eventual death.

**SUGGESTED USE** (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈1-3/10 sq. ft., ≈2-3/10 sq. ft. or ≈4,500/acre.

**Temperature:** Warm 64-77°F  
**Relative Humidity:** Moderate =70%

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<th>Temperature</th>
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<th>Amount</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101001</td>
<td>64-77°F</td>
<td>≈1,000 Pupae</td>
<td>$80.00</td>
</tr>
<tr>
<td>1101003</td>
<td>64-77°F</td>
<td>≈3,000 Pupae</td>
<td>$207.00</td>
</tr>
<tr>
<td>1101002</td>
<td>64-77°F</td>
<td>4 x 250 Pupae in Blister Packs</td>
<td>$60.00</td>
</tr>
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</table>

**Overnight Shipping Required**

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

**Aphid Parasite - Aphidius colemani**

*Exceptional In Greenhouses Producing Vegetables & Ornamentals.*

**TARGET:** Aphids, especially melon and cotton aphids (Aphis gossypii).

**DESCRIPTION:** These tiny (1/8”) parasitic wasps specifically target aphids to provide food and a place to oviposit. The adults respond to alarm signals from plants to locate the aphids and, once there, they feast on the honeydew produced by the aphids. The females will then lay their eggs inside aphid nymphs. The larvae will hatch and devour the aphid from inside, turning it into a mummy. The parasites are shipped to you in this stage; simply place them where the infestation is. Once mature, the adult wasps will chew its way out of the mummy and begin hunting aphids.

**SUGGESTED USE** (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈1-8/1 sq. yd. or ≈500-3,000/acre.

**Temperature:** 70-77°F  
**Relative Humidity:** High =80%

<table>
<thead>
<tr>
<th>Temperature</th>
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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>1101301</td>
<td>70-77°F</td>
<td>≈1,000 Mummies</td>
<td>$54.00</td>
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<tr>
<td>1101303</td>
<td>70-77°F</td>
<td>≈5,000 Mummies</td>
<td>$189.00</td>
</tr>
<tr>
<td>1101304</td>
<td>70-77°F</td>
<td>≈10,000 Mummies</td>
<td>$340.00</td>
</tr>
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</table>

**Overnight Shipping Required**

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Call 1-800-827-2847 or Order Online www.arbico-organics.com
Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

**TARGET:** Aphids, especially potato (* Macrosiphum euphorbiae*), glasshouse potato (*Aulacorthum solani*), green peach (*Myzus persicae*), foxglove (*Aulacorthum solani*) and pea aphids (*Acyrthosiphon pisum*). Also attacks bughead/wheat (*Shizaphis graminum*), yellow rose (*Rhodobium orientis*), English grain (*Sitobion avenae*) and other aphids.

**DESCRIPTION:** These mini-wasps (1/8”) are vigorous fliers and will aggressively seek out aphid populations, no matter how small. Once they find the aphids, they feed on the honeydew produced by the aphids and lay their eggs inside the aphid nymphs. As the larvae feed on the nymphs from the inside, the nymph turns into a mummy. The parasites are shipped to you this stage; simply place them where the infestation is. Once mature, the adult wasp will chew its way out of the mummy and begin its own search for aphids.

**SUGGESTED USE (Depending upon level of infestation):** Use 1,000-2,000/5,000-10,000 sq. ft. for minimum of 3 weeks or until control is achieved. Hang squares with parasitized pupae on plant foliage at first sign of infestation.

**Temperature:** Moderate ≈50-70%

**Relative Humidity:** Moderate =70%

**1001003**

≈1,000 Count

$32.50

**1132001**

≈100 Count

$74.95

**1132002**

≈200 Count

$47.50

**1132003**

≈200 Count

$50.00

**2nd Day Shipping Required**

*FREE SHIPPING in the contiguous 48 states. Ships via 2nd Day Only. Ships only on Monday, Tuesday and Wednesday. Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW*

Whitefly Parasite - *Eretmocerus eremicus*

Better Adapted To Higher Temperatures, Including Temperatures That Fluctuate Day & Night! Good For Desert Climates.

**TARGET:** Greenhouse whiteflies (*Trialeurodes vaporarium*), sweet potato whiteflies (*Bemisia tabac*), silverleaf whiteflies (*Bemisia argentifolii*), and banded-winged whiteflies (*T. abutiloneus*) and others.

**DESCRIPTION:** The whitefly parasite (parasitoid) is a tiny wasp that host feeds and parasitizes the scale (nymphs) of whiteflies. The time from egg laying to adult emergence is approximately 22 days. Can be used with Green Lacewings.

**SUGGESTED USE (Depending upon level of infestation):** Use 500-1,000/15,000 sq. ft. Light infestations: (less than 1 adult whitefly per 50-100 plants) Use 1,000-2,000/5,000-10,000 sq. ft. for minimum of 3 weeks or until control is achieved. Heavy infestations: Use 3,000/3,500 sq. ft. for a minimum of 3 weeks or until control is achieved. Hang squares with parasitized pupae on plant foliage at first sign of infestation. Order weekly for approximately 2-6 weeks until control is achieved. Please call to set up your customized weekly program.

**Temperature:** Moderate 64-75ºF

**Relative Humidity:** Minimum 40%

**1000703**

20 Blister Packs (≈250 Pupae Per Pack)

$94.95

**Overnight Shipping Required**

*Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW*

Whitefly Parasite - *Encarsia formosa*

Save Your Plants From The Ravages Of Destructive Whiteflies! Good For Greenhouses.

**TARGET:** Greenhouse whiteflies (*Trialeurodes vaporarium*), sweet potato whiteflies (*Bemisia tabac*) and approximately 15 other species of whitefly.

**DESCRIPTION:** The whitefly parasite (parasitoid) is a tiny wasp that host feeds and parasitizes the scale (nymphs) of whiteflies. The time from egg laying to adult emergence is approx. 25 days. Can also be used with Green Lacewings.

**SUGGESTED USE (Depending upon level of infestation):** For prevention:

- Use 500-1,000/15,000 sq. ft.
- Light infestations: (less than 1 adult whitefly per 50-100 plants)
- Use 1,000-2,000/5,000-10,000 sq. ft. for minimum of 3 weeks or until control is achieved.
- Heavy infestations: Use 3,000/3,500 sq. ft. for a minimum of 3 weeks or until control is achieved.

**Temperature:** Moderate 76-85ºF

**Relative Humidity:** Moderate =50-70%

**1132001**

≈1,000 Count

$32.50

**1132002**

≈3,000 Count

$46.00

**1132003**

≈5,000 Count

$60.00

**2nd Day Shipping Required**

*FREE SHIPPING in the contiguous 48 states. Ships via 2nd Day Only. Ships only on Monday, Tuesday and Wednesday. Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW*

Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

**TARGET:** Aphids, scale, thrips, and especially greenhouse and outdoor sweet potato whiteflies and other soft-bodied insect pests.

**DESCRIPTION:** Females lay ≈3-4 eggs daily and adults live for approximately one month. Adult beetles capture prey with their mandibles, inject paralyzing venom & feed on pest body fluids. Shipped as adults, they should be used at the first signs of infestation.

**SUGGESTED USE (Depending upon level of infestation):** Upon arrival, release at sundown. May be stored at temperatures between 50-60ºF for 1-2 days. Can be combined with other whitefly parasites.

**Temperature:** Moderate 65-90ºF

**Relative Humidity:** High =70% & Higher

**1126001**

≈100 Count

$47.50

**1126002**

≈1000 Count

$162.00

**Overnight Shipping Required**

*Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW*
PREDATORY MITES

Mite Predator - Neoseiulus (=Amblyseius) californicus

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

TARGET: Various spider mites, cyclamen mites, broad mites and russet mites.

DESCRIPTION: This tiny, ivory, pear-shaped predatory mite feeds on a variety of pests on crops including: cucumbers, tomatoes, strawberries, tropical foliage plants, and greenhouse roses. Although adults consume prey at a relatively slow rate of about one egg per day, they can survive longer under starvation conditions. During their lifetime of about 20 days, females will lay approx. 1-3 eggs per day. Eggs hatch within a few days and adulthood is reached in about 4-12 days.

SUGGESTED USE (Depending upon level of infestation): Use ≈1,000 per 4,500 sq. ft. in greenhouses to treat for broad mite. Use ≈10,000 per acre to treat for cyclamen mites on strawberries. Use weekly until infestation subsides.

Temperature: Warm 50-105°F Relative Humidity: 40-80%

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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Mite Predator - Neoseiulus (=Amblyseius) fallacis

An Excellent Mite Predator For Control Of Many Different Types Of Mites.

TARGET: Two spotted spider mites, broad mites, cyclamen mites, hemp russet mites; various mites.

DESCRIPTION: This predatory mite effectively suppresses cyclamen mites in strawberry fields, broad mites in greenhouse crops, European red mites and two-spotted spider mites in orchards, spider mites on roses and vegetable crops in greenhouses and general mite problems on mint and hops in northern climates. Eggs and nymphs are difficult to see as they are small and almost transparent. Adults are pear-shaped and ivory until feeding, when they take on the red or brown coloration of their prey. Adult females consume around 2-16 pest mites per day and lay ≈20-60 eggs during a 14-60 day life-cycle. The transition from egg to adult stage takes about 7-9 days.

SUGGESTED USE (Depending upon level of infestation): Use in warm/dry climates! Use preventatively; over-winters and sustains on pollen. Release at the start and end of the season. Use ≈1,000 per 4,500 sq. ft or 10,000 per acre.

Temperature: Moderate 50-80°F Relative Humidity: Minimum 50%

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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW
Mite Predator - **Amblyseius andersoni**

**Great For Pre-Emergent Control Of Pest Mite Infestations!**

**TARGET:** Various pest mites including broad mites, cyclamen mites, two-spotted spider mites, red spider mites, tomato russet mites and rust mites.

**DESCRIPTION:** This predatory mite is less than 1mm long and light brown. Adult females lay about 35 eggs in a lifetime, arranging eggs onto leaf hairs. This predatory mite feeds on all stages of pest mites, thrips, pollen and honeydew.

**SUGGESTED USE** (Depending upon level of infestation): For best results, apply as a preventative treatment of mite infestations in vegetable crops, strawberries, raspberries, and fruit trees. Sachets allow for controlled release of mites over 4-6 weeks. Apply at a rate of 1-2 mites per sq. ft, or 1 sachet per plant. Place sachets within plant canopy. Use sachets on sticks at 1 per propagation tray, or where canopy cannot hold sachet on hook. Replace sachets every four weeks for continued control. Can be used with *Phytoseiulus persimilis* and *Stethorus punctillum*.

**Temperature:** Moderate 42-100°F  
**Relative Humidity:** High if in higher temps.

**BULK SIZES:**

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<td>≈25,000 in 200 Mini Sachets on Sticks</td>
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<tr>
<td>1101325</td>
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<tr>
<td>1101355</td>
<td>≈125,000 in 1,000 Mini Sachets on Sticks</td>
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<tr>
<td>1101322</td>
<td>≈125,250 in 6 x 328 ft. Strips of Sachets</td>
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**CONTROLLED RELEASE:**

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<td>≈125,000 in 5 Liter Bag</td>
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**Overnight Shipping Required**

**Cannot be shipped to the following states:** HI, PR, VI, GU, AS, PW
Thrips Predator - *Amblyseius cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.

**TARGET:** Prefers greenhouse and western flower thrips. They will also eat spider mites, russet mites and pollen.

**DESCRIPTION:** Tan colored adult females lay about 35 small white eggs throughout their lifespan of about 30 days. During the 7-10 day nymph stage, predation begins. Adults will consume about 1 pest a day. Predators are shipped as adults.

**SUGGESTED USE (Depending upon level of infestation):** For best results, apply before onset of thrips infestation. For prevention, use at a rate of 10-20 mites per sq. ft at weekly intervals. Use continuous release sachets at 1 per 3 sq ft. for 3-6 weeks. Spot treat with 10-40 mites per sq. ft. weekly until infestation subsides. Monitor with blue sticky traps or ribbon (see pg. 16).

**Temperature:** Moderate 66-80ºF  **Relative Humidity:** Moderate 65-72%

**BULK SIZES:**
- 1152204 = 50,000 in Bran/Vermiculite Mix $38.50
- 1152224 = 50,000 in Vermiculite $40.00
- 1152205 = 100,000 in Bran $55.00
- 1152206 = 250,000 in Bran/Vermiculite Mix $100.00
- 1152223 = 250,000 in Vermiculite $112.00

**CONTROLLED RELEASE:**
- 1152225 = 125,000 in 500 Mini Sachets on Sticks $80.00
- 1152221 = 200,000 in 400 Sachets w/Hooks $65.00
- 1152201 = 200,000 in 200 Sachets w/Hooks $75.00
- 1152222 = 250,000 in 1,000 Sachets w/Hooks $120.00
- 1152226 = 250,000 in 1,000 Sachets on Sticks $135.00
- 1152227 = 500,000 in 2,000 Mini Sachets on Sticks $245.00
- 1152220 = 1,602,000 in 6 x 525 ft. Strips of Sachets $600.00

*Overnight Shipping Required*

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Thrips & Whitefly Predator - *Amblyseius swirskii*

For Use On A Variety Of Pest Mites, Thrips & Whiteflies.

**TARGET:** Western flower thrips, onion thrips, broad mites, hemp russet mites, glasshouse whiteflies, tobacco whiteflies or silverleaf whiteflies.

**DESCRIPTION:** These predacious mites feed on various pest insects in their developing adult stages, pollen and mold. They may consume about 10 thrips or whitefly larvae a day and up to about 20 whitefly eggs per day. They will not undergo diapause, and can be used in protected crops in cooler growing areas.

**SUGGESTED USE (Depending upon level of infestation):** Introduce before the onset of infestation, when temperatures are no lower than 60ºF. Apply at a rate of 10 mites per sq. ft every other week as needed, or apply continuous release sachets every 2-4 weeks. Use 1 sachet per plant, or 1 per 3 plants if canopy is touching. Use sachets on sticks during propagation or where canopy cannot support hooks. Not recommended for use on infestations in tomato crops.

**Temperature:** Moderate 77-85ºF  **Relative Humidity:** 70%

**BULK SIZES:**
- 1101312 = 25,000 in 1 Liter Tube $62.00
- 1101319 = 50,000 in 1 Liter Tube $105.00
- 1101311 = 125,000 in 5 Liter Bag $235.00
- 1101309 = 200,000 Bulk $375.00

**CONTROLLED RELEASE:**
- 1101317 = 50,000 in 200 Mini Sachets w/Hooks $120.00
- 1101318 = 62,500 in 500 Mini Sachets on Sticks $220.00
- 1101314 = 125,250 in 6 x 328 ft. Strips of Sachets $450.00
- 1101316 = 125,000 in 1,000 Mini Sachets w/Hooks $330.00
- 1101315 = 250,000 in 1,000 Mini Sachets w/Hooks $467.00

*Overnight Shipping Required*

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

If You’re Unsure Which Beneficial Insect Or Predator Is Right For Your Conditions, Call One Of Our Specialists At 1-800-827-2847.
Mealybug Destroyer - Cryptolaemus montrouzieri

These Tiny Ladybird Beetles Devour Pest Mealybugs In Both The Larval & Adult Stages.

**TARGET:** Mealybugs, aphids, mites, thrips, whiteflies, and other soft-bodied insect pests.

**DESCRIPTION:** Cryptolaemus is a small dark brown ladybug with an orange head and tail (elytra). The larvae are up to 13 mm long and are white with a wax-like covering. The pupae are found around stems, the underside of leaves, greenhouse structures and other sheltered areas. Shipped as adults and most effective in severe infestations.

**SUGGESTED USE** (Depending upon level of infestation): 250-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

**Temperature:** Low-High 64-81°F

**Relative Humidity:** Moderate =70-80%

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*Overnight Shipping Required*

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Rove Beetle - Dalotia coriaria (=Atheta coriaria)

For Indoor Control Of Soil Dwelling Pests!

**TARGET:** Fungus gnats (sciarid flies), thrips and shore flies.

**DESCRIPTION:** “Rove beetles” will feed on small soil-dwelling pest larvae and eggs. Adults are a brown-black color, 3-4 mm long and winged. They are predacious in all stages and develop from egg to adult in about 21 days; passing through three larval instars prior to pupation and adulthood. Adults consume about 150 pest fungus gnats eggs per day. Compatible with Stratiolaelaps scimitus (=Hypoaspis miles). Winged adults have high dispersal and colonization rates and are not recommended for outdoor use.

**SUGGESTED USE** (Depending upon level of infestation): Use season-long, in covered crops such as ornamentals, cucumbers, strawberries and mushrooms. Apply directly to growing medium surface. Apply approx. 1-5 predators per sq. ft. For high infestation, increase application rate and consider pairing with another suitable predator or parasite like S. scimitus, beneficial nematodes, or specific mite predators.

**Temperature:** Moderate 55-80°F

**Relative Humidity:** 50-80%

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<td>1101331</td>
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<tr>
<td>1101332</td>
<td>≈3,000 Adults</td>
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*Overnight Shipping Required*

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW
**BENEFICIAL INSECTS & MITES**

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**SPECIALISTS**

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**Purple Scale Predator - *Rhyzobius (=Lindorus) lophanthae***

**Voracious Adults & Larvae Feed On Scale & Other Pests!**

**TARGET:** Specializes in purple scale, relatively thin scale covered insects and immature stages of soft scale until honeydew forms. Also preadates on mealybug and other small insects.

**DESCRIPTION:** Also known as the Australian Ladybird Beetle. Adults are small, shiny black lady beetles. Their larva is grey and alligator shaped. Both adults and larvae feed on target pests.

**SUGGESTED USE (Depending upon level of infestation):** Apply about 100/250 sq. ft. for light infestations, 100/100 sq. ft. for heavy infestations, 5 to 10 per heavily infested large plant and 20-40 per tree.

**Temperature:** Moderate 73-86°F  **Relative Humidity:** Low-High ≈20-90%

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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

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**Fungus Gnat Predator - *Stratiolaelaps scimitus (=Hypoaspis miles)*

**Stop Destructive Fungus Gnats & Thrips In Their Developing Soil Stages.**

**TARGET:** Fungus gnats, western flower thrips, springtails, mold mites, spitter mites, cactus root mealybugs, strawberry root weevils and black vine root weevils.

**DESCRIPTION:** This tiny brown mite naturally inhabits the top layer of soil where larvae and pupae dwell. Female predatory mites lay their eggs in soil and the nymphs and adults feed on pests.

**SUGGESTED USE (Depending upon level of infestation):** ≈5,000-10,000 mites treat approximately 1,000 sq. ft. Release ≈25,000-50,000/acre depending on level of infestation. Apply weekly until infestation subsides. Weekly release programs available. Please Call. Trap adult infestations using Blue Sticky Traps. Reinforce with applications of beneficial nematodes.

**Temperature:** Moderate 60-74°F  **Soil Conditions:** Moist soil. Not too damp.

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<td>1154010</td>
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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

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**Moth Egg Parasites - *Trichogramma spp.*

**Prevent Worm Pest Damage On Crops!**

**TARGET:** Egg stages of more than 200 pests, including: borers, webworms, loopers, leafminers, fruitworms, cutworms, bollworms and armyworms (excluding beet armworm).

**DESCRIPTION:** *Trichogramma spp.* lay their eggs in the pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. *Trichogramma* are shipped in the parasitized host egg. Each tab has been inoculated with ≈2,400 eggs per tab.

**SUGGESTED USE (Depending upon level of infestation):** Use ≈1 tab/300 sq. ft.; 1/2-2 cards/acre weekly for 2-6 weeks. Release at first flight of moths and every 7-10 days thereafter until infestation subsides. Place tabs where moths are seen. Use traps for monitoring and trapping adult moths.

**Temperature:** Minimum 50°F  **Relative Humidity:** Moderate

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<td>1131913</td>
<td>10+ Cards</td>
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**Trichogramma brassicae** - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm

**Trichogramma minutum** - trees, bogs, more common on the East Coast

**Trichogramma platneri** - orchards, more common West of the Rockies

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<tr>
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<td>10+ Cards</td>
<td>$25.00 Per Card</td>
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**Trichogramma platneri** - orchards, more common West of the Rockies

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*FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day. Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

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Call 1-800-827-2847 or Order Online www.arbico-organics.com
ARBICO Organics™ Yellow Insect Traps

**TARGET:** Use against aphids, bean beetles, California laurel aphids, flea beetles, fungus gnats, greenhouse whiteflies, leafminers, psyllids, shore flies, silverleaf whiteflies, sweet potato whiteflies and more.

**DESCRIPTION:** ARBICO Organics Yellow Insect Traps are 5” x 7” gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests. Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

**SUGGESTED USE:** For use indoors and outdoors to trap and monitor insect pests. Traps may be hung virtually anywhere, placed on the ground or inserted into included stake. If hung, traps should be slightly above the plant canopy.
- For trapping in the greenhouse or garden, use roughly one trap per 25-50 sq. ft.
- For monitoring, use roughly one trap per acre.

1254501 ARBICO Organics Yellow Insect Traps - 5 Pack $4.25
1254502 ARBICO Organics Yellow Insect Traps - 10 Pack $8.00
1254503 ARBICO Organics Yellow Insect Traps - 25 Pack $18.75
1254504 ARBICO Organics Yellow Insect Traps - 50 Pack $35.00
1254510 ARBICO Organics Yellow Insect Traps - 100 Pack $65.00

Sticky Traps

**Monitor & Trap For Best Pest Identification!**

**DESCRIPTION:** These 4” x 7” traps reverse fold to capture insect pests on both sides and include a twist tie and punched hole for easy hanging. All natural and weatherproof.

**Aphid/Whitefly Yellow Sticky Traps:**
**TARGET:** Whiteflies, aphids, leafhoppers, fungus gnats, spittlebugs, flies and more.

**SUGGESTED USE:** Greenhouses, orchards, row crops, barns and more. Hang or attach to stake approx. every 7 ft. at the end of each row or per tree. Use more for trapping.

1254001 Package of 5 Yellow Traps $4.49
1254101 Package of 5 Blue Traps $5.50

**Thrips/Leafminer Blue Sticky Traps:**
**TARGET:** Thrips, leafminers.

**SUGGESTED USE:** Greenhouses, orchards, row crops, barns and more. Hang or attach approximately every 7 ft. at the end of each row or per tree. Use more for trapping.

Stiky™ Strips Yellow Insect Traps

**These Basic Traps Come With A Handy Wire Hanger.**

**TARGET:** Whiteflies, aphids, fungus gnats, leafminers, thrips, and more.

**DESCRIPTION:** This non-gridded yellow sticky trap is versatile enough to use virtually anywhere you are growing. Many insects find this particular yellow hue irresistible and, with glue on both sides, these traps will grab them coming and going. The adhesive is UV resistant, which keeps it from drying out.

**SUGGESTED USE:** For use in homes, gardens, greenhouses, nurseries and fields. Included wire hangers can also be used as plant stakes.

1254301 Stiky Strips Yellow Sticky Traps - 9 Pack $5.49
1254302 Stiky Strips Yellow Sticky Traps - (5) 9 Packs $25.00
1254303 Stiky Strips Yellow Sticky Traps - (10) 9 Packs $45.00

BioCare® Gnat Stix

**An Effective Treatment For A Variety Of Small Pests Infesting Indoor Plants!**

**TARGET:** Fungus gnats, aphids, plant lice & more!

**DESCRIPTION:** Effective for even the worst infestations of fungus gnats. Use one Gnat Stix for each infested plant in adjacent rooms or hallways.

**SUGGESTED USE:** Peel release paper on yellow sticky sheet. Slide stick through the holes in the sticky sheet. Use one sticky strip on each stick. Place in the soil of plants. Avoid leaves coming in contact with sticky paper.

1280501 Gnat Stix - 12 Per Pack $6.65
1280502 Gnat Stix - 12 Per Pack - Bundle of 2 $11.50
1280503 Gnat Stix - 12 Per Pack - Bundle of 4 $20.50
**Olson Garden Guard Yellow Stiky™ Ribbon**

This Ribbon Is Just Right For Encompassing Small Gardens.

**TARGET:** Whiteflies, aphids, beetles, leafhoppers, thrips and most flying insects.

**DESCRIPTION:** Made for trapping and monitoring, Olson Garden Guard provides another weapon in the sticky trap war on insect pests. Pre-coated with Stiky Stuff adhesive, this narrow (2" wide) and long (100 ft.) roll is ideal as a perimeter barrier; use two levels of ribbon to form a formidable fence of stickiness. Comes packaged in a heavy duty plastic flange for easy dispensing.

**SUGGESTED USE:** Drive some stakes (not included) into the ground and wrap the ribbon around them and loop from one stake to another. To create a “fence” around your garden, place one row of ribbon at 1 ft. off the ground and another 2 ft. higher. Adhesive can be removed with vegetable oil, soap and water, and we recommend using vinyl gloves while handling ribbon for additional ease in cleanup.

1259605 Garden Guard Yellow Stiky Ribbon - 2” x 100 ft. $14.25

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**Yellow Stiky™ Tape**

Longer Length Tape To Cover Even More Area.

**TARGET:** Whiteflies, aphids, leafhoppers, fungus gnats, frog hoppers (spittlebugs), flies and more.

**DESCRIPTION:** When you have an insect population in a large area that you need to monitor and trap, this sticky tape is the choice for you. It will work well against aphids, thrips, flies, gnats and many others. Pre-coated with adhesive on both sides, this yellow tape is 530’ long and comes in 4 convenient widths (2”, 6”, 10” & 12”), making it perfect for a variety of locations. You’ll also find that the extra thick cardboard flanges and heavy duty plastic plugs make these rolls easy to work with and the product easy to dispense. You can loop these along the perimeter of fields, inside greenhouses, barns, corrals, stalls or any other area where you need insect control. Any unwanted pests or other residue can be removed with vegetable oil or CitraSolv® (available online).

**SUGGESTED USE:** Loop along the perimeter of fields, inside greenhouses, barns, corrals, stalls or any other area where you need insect control.

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<th>Description</th>
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<td>Yellow Stiky Tape - 12” wide x 530’ long</td>
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* Larger quantities available.

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**Pest Wizard Yellow Sticky Traps**

Large Or Small – We’ve Got You Covered With These Popular Sticky Traps!

**TARGET:** Thrips, whiteflies, aphids, fruit-nut-maggot flies, stinkbugs, flea beetles, hoppers, yellow-jackets, psyllids, cucumber beetles, olive fruit flies, midges, sharpshooters, true bugs, common nuisance flies and other beetles.

**DESCRIPTION:** Designed to visually attract insects with this specific and irresistible color, bugs are drawn in and then become hopelessly ensnared by the powerful, yet not messy, glue. These traps are clearly gridded on both sides for easy monitoring. Use the large (5 1/2” x 8”) size when you have a greater area to cover and the mini (3 3/4” x 5”) for those hard-to-control nooks and crannies. Traps can be used alone or with an added attractant. They are especially effective when used with a pheromone lure to target specific pests. Adhesive can be cleaned off with soap and water.

**SUGGESTED USE:** Traps can be hung from tree branches, in greenhouses, on garden stakes, on lines above vegetable rows, on ornamental shrubs, on fences and on trellises.

<table>
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<td>Large Yellow Sticky Traps - 4 Pack</td>
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**Pest Wizard Assorted Sticky Traps**

Try This Assortment To Find The Best Sticky Trap For You!

**TARGET:** Many insect species, including aphids, whiteflies, fruit flies, thrips, hoppers, beetles, psyllids and sharpshooters.

**DESCRIPTION:** This assortment of UV and weather-resistant rectangular sticky traps offers a variety of sizes and colors to address almost any common garden pest problem or area. This selection contains one each of the Large Yellow (5½” x 8”), medium-sized (3.5” x 8”) Blue/Yellow, smallish Mini Yellow (3.25” x 5”) and small (3” x 5”) Green Traps. These traps can be used alone or with an added attractant (such as an essential oil) or lure. They are especially effective when used with a pheromone lure to target specific pests. Each unique color has been shown to attract specific insects, with some insects being very particular color-wise and others liking all the colors. Each gridded trap is coated with Messyless Adhesive™, which reacts with light in a very specific way to increase your capture rate and to keep insects firmly caught.

**SUGGESTED USE:** Can be used indoors or outdoors. Hang trap about 1 ft. (31 cm.) above or to the side of host plants. When trap is full of insects and/or debris, dispose in household waste. Trap is biodegradable.

1254230 Assorted Sticky Traps - 4 Pack $7.99

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Call 1-800-827-2847 or Order Online www.arbico-organics.com
**Blue Sticky Strips**

**Use Blue For Monitoring & Trapping A Wide Range Of Thrips Species!**

**TARGET:** Male and female western flower thrips as well as other species of *Frankliniella*.

**DESCRIPTION:** Thrips find this particular tone of blue extremely attractive. For best results, place just above crop canopy and use early in the season before pest populations grow. Monitor regularly and replace after 6 weeks of use or when surface is mostly covered or dirty. Complete instructions included. Traps feature no mess “dry touch” adhesive. Each pack includes 10 - 4” x 9 1/2” 2 sided traps and 10 twist ties.

**SUGGESTED USE:** If used for pest suppression in glasshouses: At least 1 trap per 10 sq. meters, adjusting amount as needed for severity of problem. If used just for monitoring pest populations: Use 1 trap per 100-1000 sq. meters depending on the crop and/or the size of the glasshouse.

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<td>1254402</td>
<td>Blue Sticky Traps - 10 Pack (Bundle of 5)</td>
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**Pest Wizard Blue-Yellow Card Trap**

**A Trap With Two Special Colors – To Attract Even More Pests!**

**TARGET:** The blue side will attract aphids and thrips. The yellow side attracts whiteflies, hoppers, beetles, fruit flies, psyllids and more!

**DESCRIPTION:** Blue on one side, yellow on the other. These dual-duty traps will capture an array of pests using specific color wavelengths and MessyLess™ non-toxic adhesive that won’t stick to your fingers. Each pack contains 4 rectangular traps, 8 hangers and instructions. Traps are weather resistant and measure 8” x 3.5”.

**SUGGESTED USE:** Hang traps on branches in trees and roses. Hang on stakes near vegetable row crops, shrubs and container plants.

- For Monitoring: ≈1 trap/1,000 sq. ft.
- For Trapping: ≈1 trap/20-50 sq. ft.

<table>
<thead>
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<tr>
<td>1254202</td>
<td>Blue &amp; Yellow Card Trap - 10 Pack</td>
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**Pest Wizard Green Sticky Traps**

**This Green Is Especially Attractive To Aphids, Thrips & Hoppers On Beans!**

**TARGET:** Aphids, leafhoppers, thrips (including Western Flower Thrips), beetles, grasshoppers and others.

**DESCRIPTION:** This particular shade of green is an especially effective attractant for aphids, thrips and hoppers on peas, beans and citrus. Some beetles and grasshoppers will also be drawn to these traps. Each 3” x 5” trap has a 1” grid pattern printed on both sides. The MessyLess™ adhesive on these traps will grip insects firmly but will not stick to your hands and can be washed off with simple soap and water. These durable traps can stand up to the weather outside and are equally effective inside homes or greenhouses. Package contains four (4) 3” x 5” traps, 4 hangers and instructions.

**SUGGESTED USE:** Hang trap about 1 ft. (31 cm) above or to the side of the target plants. Can be used in combination with other kits and lures (including essential oil attractants).

<table>
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<tr>
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<th>Description</th>
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<td>1254250</td>
<td>Pest Wizard Green Sticky Traps, 4 Pack</td>
<td>$6.99</td>
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</table>
What Are Beneficial Nematodes?
Beneficial Nematodes are live, microscopic organisms (non-segmented roundworms) that occur naturally in soil throughout the world. They are parasitic to insect pests that typically have a developing (larval or pupal) stage of life in the soil; however, they have been known to also parasitize above ground stages of adults, nymphs and larvae.

How Do Beneficial Nematodes Work?
Beneficial Nematodes are applied to soil where they locate pests, enter through orifices or body walls and infect pests with toxic bacteria. Once inside, it is not the nematode that actually kills the pest, but bacteria inside the nematode. The bacteria kills pests within 24 to 48 hours. Beneficial Nematodes then feed on bacteria and host insect tissue. Adult stages of Beneficial Nematodes produce hundreds of thousands of new juveniles. New infective juveniles emerge loaded with “pest killer” bacteria and begin their search for a new host. As long as there is a suitable host, the Beneficial Nematodes will continue to parasitize. Beneficial nematodes can be used around and will not harm mammals, aquatic life, birds, reptiles or amphibians.

When & How Often Should Beneficial Nematodes Be Applied?
Use beneficial nematodes whenever larvae or grubs are present. As pest larvae feed on plant roots beneath the soil surface, severe damage can be done before you realize you have a pest dilemma. If adult insects are present, their eggs, nymphs, larvae and pupa will soon be developing. FOR TREATMENT: Apply nematodes every 7-10 days until pest infestation subsides. FOR PREVENTION: Apply at least 2-4 times per year in the spring, summer, fall and winter as needed. Nematodes should be applied when soil temperatures are 42° - 95° F.

How Long Can Beneficial Nematodes Be Kept Before Use?
Beneficial Nematodes should be used as soon as possible. If you need to store them, it is best to store them unopened in a refrigerator for no longer than 2 weeks. Once opened, use immediately and entirely.

When Will I See Results?
Beneficial Nematodes are considered to be one of the most lethal parasites known to kill plant pests. Depending upon the pest(s) you are treating and the method of application, it can take from 2-30 days for you to see results. It is important to remember that Beneficial Nematodes disintegrate pests from the inside out. You will not see dead insect bodies as you would with a chemical knockdown. Instead you will notice less of the pest(s) over time. Like all insects and organisms, some nematodes will survive the winter in a dormant state; however, we recommend re-applying at least 2-4 times on an annual basis to ensure that your pests do not get out of hand again.

Apply To Soil For Control Of Target Pests:
- Beetle Grubs
- Roots
- Rootworms
- Thrips
- Worms
- Leafminers
- Weevils
- And more!

How Do I Apply Beneficial Nematodes?
DO NOT OPEN PACKAGE UNTIL YOU ARE READY TO APPLY
Beneficial Nematodes are applied to the soil mixed with water. Since they are alive and sensitive to light, apply early in the morning or at dusk. It’s easy to apply nematodes. Before applying, make sure the soil is moist. Mix Beneficial Nematodes with enough water for coverage area. Apply pre-dawn or at dusk with a hose end sprayer (See sprayer options on page 54), backpack sprayer, pump sprayer or watering can. Lightly water again after application. Keep area moist for at least 2 weeks. Complete nematode application instructions available online and in the package.

How Do I Choose the Right Beneficial Nematodes?
Use the Selection Chart on the next page to choose the proper species by pest(s). If you are unsure which nematode to use or your target pest is not listed, please call and one of our bio-control specialists can assist. Remember Beneficial Nematodes control soil-dwelling life stages.

When Do I See Results?
Beneficial Nematodes are considered to be one of the most lethal parasites known to kill plant pests. Depending upon the pest(s) you are treating and the method of application, it can take from 2-30 days for you to see results. It is important to remember that Beneficial Nematodes disintegrate pests from the inside out. You will not see dead insect bodies as you would with a chemical knockdown. Instead you will notice less of the pest(s) over time. Like all insects and organisms, some nematodes will survive the winter in a dormant state; however, we recommend re-applying at least 2-4 times on an annual basis to ensure that your pests do not get out of hand again.

Apply To Soil For Control Of Target Pests:
- Beetle Grubs
- Rootworms
- Leafminers
- Thrips
- Worms
- Weevils
- Fungus Gnats
- And more!

Application: To soil for control of target pests:
- Rootworms
- Leafminers
- Thrips
- Worms
- Weevils
- Fungus Gnats
- And more!

See page 54 for hose end sprayers.

Call 1-800-827-2847 or Order Online www.arbico-organics.com
**BENEFICIAL NEMATODES**

**NemaSeek™ Heterohabditis bacteriophora (Hb) Beneficial Nematodes**

NemaSeek actively seeks out larval pests and is most effective against sedentary pests, such as queen ants, asparagus beetles, bagworms, banana moths, banana weevils, berry root weevils, bill bugs, borers, carrot weevils, chafers, fleas, grubs and more!

**NemAttack™ Steinernema feltiae (Sf) Beneficial Nematodes**

These nematodes are known to wait for passing pests, such as cabbage maggot, humpbacked flies, onion maggots, pill worm, raspberry crown borer, root maggots, sclarids, shore flies, thrips and more!

**NemAttack™ Steinernema carpocapse (Sc) Beneficial Nematodes**

These nematodes are known to wait for passing pests. NemAttack is most effective against mobile pests such as fleas, cutworm, fly larvae, termites and more!

**NemaSeek™ Heterohabditis indica (Hi) Beneficial Nematodes**

NemaSeek actively seek out larval pests and has been shown to be effective against small hive beetle, fungus gnats, root weevil, western flower thrips and select grubs.

**NemAttack™ Steinernema riobrave (Sr) Beneficial Nematodes**

These nematodes are known to wait for passing pests. NemAttack S. riobrave is most effective against grubs of various beetles, citrus weevil and other weevil grubs, small hive beetle and more.

**NemaSeek™ Steinernema kraussei (Sk) Beneficial Nematodes**

NemaSeek actively seek out larval pests in the soil. S. kraussei has been shown to be effective at cooler soil temperatures (37-86°F) against the developing stage of weevils (especially black vine weevils) and sawflies.

**NEMATODE SELECTION CHART – Choose Variety By Pest**

<table>
<thead>
<tr>
<th>Pest</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ants - Queen</td>
<td></td>
</tr>
<tr>
<td>Armyworm</td>
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</tr>
<tr>
<td>Artichoke Plume Moth</td>
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</tr>
<tr>
<td>Asparagus Beetles</td>
<td></td>
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<tr>
<td>Bagworm</td>
<td></td>
</tr>
<tr>
<td>Banana Moth</td>
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<tr>
<td>Banana Weevils</td>
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<tr>
<td>Beet Armyworm</td>
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<tr>
<td>Berry Root Weevils</td>
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<tr>
<td>Bill Bug</td>
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<td>Black Cutworm</td>
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<td>Black Vine Weevils</td>
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<td>Bluegrass Weevils</td>
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<td>Cabbage Maggot</td>
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<td>Carrot Weevils</td>
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<td>Caterpillars</td>
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<td>Chafer - European, masked</td>
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<td>Citrus Root Weevils</td>
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<td>Codling Moth</td>
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<td>Colorado Potato Beetles</td>
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<td>Corn Earworm</td>
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<tr>
<td>Corn Rootworm</td>
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<tr>
<td>Cotton Bollworm</td>
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<td>Cutworm</td>
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<td>Gall Midges</td>
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<tr>
<td>Grape Root Borers</td>
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<td>Iris Borers</td>
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<td>Japanese Beetles</td>
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<tr>
<td>Large Pine Weevils</td>
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<td>Leafminers</td>
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<td>Scarabs</td>
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<td>Sclarids</td>
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<td>Thrips</td>
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<td>Ticks</td>
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<td>Tobacco Budworm</td>
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<tr>
<td>Tobacco Cutworm</td>
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<td>Webworm</td>
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<td>Wireworm</td>
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<tr>
<td>Wood Borers</td>
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### Beneficial Nematodes

- **NemaSeek™ Heterorhabditis bacteriophora (Hb)**
- **NemAttack™ Steinernema feltiae (Sf)**
- **NemAttack™ Steinernema carpocapsae (Sc)**
- **NemAttack™ Steinernema riobrave (Sr)**
- **NemaSeek™ Steinernema kraussei (Sk)**
- **NemaSeek™ Heterorhabditis indica (Hi)**

#### SINGLE SPECIES

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<td>1221706</td>
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<td>≈10 million</td>
<td>$42.95</td>
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<tr>
<td>1220321</td>
<td>≈50 million</td>
<td>$72.00</td>
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<td>1221702</td>
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</tr>
<tr>
<td>1221705</td>
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<td>$270.00</td>
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- **NemAttack Steinernema riobrave**

<table>
<thead>
<tr>
<th>SKU</th>
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</tr>
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<tbody>
<tr>
<td>1220410</td>
<td>≈5 million</td>
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- **NemaSeek Steinernema kraussei**

<table>
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<tr>
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</thead>
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<tr>
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<tr>
<td>1220424</td>
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- **NemaSeek Heterorhabditis indica**

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</thead>
<tbody>
<tr>
<td>1220200</td>
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#### COMBO PACKS

- **NemaSeek Hb & NemAttack Sc**

<table>
<thead>
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<tr>
<td>1220332</td>
<td>≈50 mil. per species</td>
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<td>1221699</td>
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<tr>
<td>1220335</td>
<td>≈500 mil. per species</td>
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- **NemaSeek Hb & NemAttack Sf**

<table>
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<tr>
<th>SKU</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1220333</td>
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<tr>
<td>1220334</td>
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<tr>
<td>1220336</td>
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- **NemAttack Sf & NemAttack Sc**

<table>
<thead>
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</tr>
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<tbody>
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<tr>
<td>1220341</td>
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<tr>
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</tr>
<tr>
<td>1220343</td>
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#### TRIPLE THREAT COMBO

- **NemaSeek Hb, NemAttack Sf & NemAttack Sc**

<table>
<thead>
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<th>SKU</th>
<th>Size</th>
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#### SIZE & COVERAGE CHART

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>COVERAGE</th>
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</thead>
<tbody>
<tr>
<td>≈5 mil. nematodes</td>
<td>Treats ≈1,600 sq. ft.</td>
</tr>
<tr>
<td>≈10 mil. nematodes</td>
<td>Treats ≈3,200 sq. ft.</td>
</tr>
<tr>
<td>≈50 mil. nematodes</td>
<td>Treats ≈1 acre</td>
</tr>
<tr>
<td>≈250 mil. nematodes</td>
<td>Treats ≈5 acres</td>
</tr>
<tr>
<td>≈500 mil. nematodes</td>
<td>Treats ≈10 acres</td>
</tr>
</tbody>
</table>

### OMRI Listed Beneficial Nematodes

- **NemaSeek™ Heterorhabditis bacteriophora (Hb)**
- **NemAttack™ Steinernema feltiae (Sf)**
- **NemAttack™ Steinernema carpocapsae (Sc)**

#### OMRI LISTED SINGLE SPECIES

- **NemaSeek Pro Hb Beneficial Nematodes**

<table>
<thead>
<tr>
<th>SKU</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4004010</td>
<td>≈10 million</td>
<td>$52.00</td>
</tr>
<tr>
<td>4004050</td>
<td>≈50 million</td>
<td>$90.00</td>
</tr>
<tr>
<td>4004250</td>
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<td>$250.00</td>
</tr>
<tr>
<td>4004500</td>
<td>≈500 million</td>
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</table>

- **NemAttack Pro Sc Beneficial Nematodes**

<table>
<thead>
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<th>SKU</th>
<th>Size</th>
<th>Price</th>
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<td>4006050</td>
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<td>4006250</td>
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</tr>
<tr>
<td>4006500</td>
<td>≈500 million</td>
<td>$325.00</td>
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</table>

- **NemaSeek Pro Sc Beneficial Nematodes**

<table>
<thead>
<tr>
<th>SKU</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
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<td>4007010</td>
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</tr>
<tr>
<td>4007050</td>
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<td>4007250</td>
<td>≈250 mil. per species</td>
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</tr>
<tr>
<td>4007500</td>
<td>≈500 mil. per species</td>
<td>$880.00</td>
</tr>
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</table>

*Free shipping in the contiguous 48 United States. 2nd day shipping required for the 5 million - 50 million sizes. Expedited shipping available for an additional fee. The 250 million & 500 million sizes require next day shipping during summer months, 2-day shipping otherwise. Orders ship Monday - Thursday, excluding holidays. Cannot be shipped to the following states: HI, AK, PR, VI, GU, AS, PW.*

Call 1-800-827-2847 or Order Online www.arbico-organics.com
Monterey B.t.
An Easy-To-Use Solution For Controlling Caterpillars, Loopers & More!

TARGET: Cabbage looper, imported cabbage worm, tomato hornworm and bagworm, spring cankerworm, fall cankerworm, gypsy moth, tent caterpillar, elm spanworm and fall webworm on trees and ornamentals.

DESCRIPTION: This biological insecticide contains Bacillus thuringiensis v kurstaki (Btk) to control most Lepidoptera insects.

SUGGESTED USE: Can be used indoors and outdoors. Best if used while larvae are actively feeding but before plants are damaged. Small scale applications: Mix 1/2-4 tsps./gall. of water. Or use 1/4-2 lbs./acre. Repeat applications every 3-14 days. Add a spreader-sticker on hard-to-wet crops and to improve spray efficacy in poor weather conditions.

Moth Egg Parasites - Trichogramma spp.
Prevent Worm Pest Damage On Crops!

TARGET: Egg stages of more than 200 pests, including: borers, webworms, loopers, leafminers, fruitworms, cutworms, bollworms and armyworms (excluding beet armyworm).

DESCRIPTION: Trichogramma spp. lay their eggs in the pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. Trichogramma are shipped in the parasitized host egg. Each tab has been inoculated with ≈2,400 eggs per tab.

SUGGESTED USE (Depending upon level of infestation): Use = 1 tab/300 sq. ft.; 1/2-2 cards/acre weekly for 2-6 weeks. Release at first flight of moths and every 7-10 days thereafter until infestation subsides. Place tabs where moths are seen. Use traps for monitoring and trapping adult moths.

Temperature: Minimum 50ºF Relative Humidity: Moderate

<table>
<thead>
<tr>
<th>SKU #</th>
<th>Amount &amp; Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichogramma brassicae - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm</td>
<td>1131910 3 Tabs</td>
<td>$15.00</td>
</tr>
<tr>
<td></td>
<td>1131903 6 Tabs</td>
<td>$20.00</td>
</tr>
<tr>
<td></td>
<td>1131911 1 Card (30 Tabs)</td>
<td>$30.00</td>
</tr>
<tr>
<td></td>
<td>1131912 5-9 Cards</td>
<td>$28.00 Per Card</td>
</tr>
<tr>
<td></td>
<td>1131913 10+ Cards</td>
<td>$25.00 Per Card</td>
</tr>
<tr>
<td>Trichogramma minutum - trees, bogs, more common on the East Coast</td>
<td>1129001 3 Tabs</td>
<td>$15.00</td>
</tr>
<tr>
<td></td>
<td>1129003 6 Tabs</td>
<td>$20.00</td>
</tr>
<tr>
<td></td>
<td>1129010 1 Card (30 Tabs)</td>
<td>$30.00</td>
</tr>
<tr>
<td></td>
<td>1129025 5-9 Cards</td>
<td>$28.00 Per Card</td>
</tr>
<tr>
<td></td>
<td>1129030 10+ Cards</td>
<td>$25.00 Per Card</td>
</tr>
<tr>
<td>Trichogramma platneri - orchards, more common West of the Rockies</td>
<td>1130001 3 Tabs</td>
<td>$15.00</td>
</tr>
<tr>
<td></td>
<td>1130003 6 Tabs</td>
<td>$20.00</td>
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<tr>
<td></td>
<td>1130030 1 Card (30 Tabs)</td>
<td>$30.00</td>
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<tr>
<td></td>
<td>1130035 5-9 Cards</td>
<td>$28.00 Per Card</td>
</tr>
<tr>
<td></td>
<td>1130040 10+ Cards</td>
<td>$25.00 Per Card</td>
</tr>
</tbody>
</table>

*FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day. Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW
CATERPILLAR & GRASSHOPPER CONTROL

BONIDE® Thuricide Liquid Concentrate

*Bacillus thuringiensis var. kurstaki*

**TARGET:** Control of caterpillars.

**DESCRIPTION:** Use Thuricide to control caterpillars that are causing excessive damage. This easy to mix and easy-to-use liquid can be sprayed on any plant that you would like to protect. Can be used on fruits, vegetables and ornamentals and can be used up to the day of harvest. Use weekly until the infestation is under control.

**SUGGESTED USE:** Easy-to-use for all spray applications, just mix 1-4 tsp. per gallon of water and apply to plants. It is important to target the underside and top of leaves to ensure good coverage. The mix rate you use is dependent on the level of infestation – there is no harm to the plant if you use a stronger mix rate.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1201201</td>
<td>BONIDE Thuricide Liquid Concentrate - 8 oz.</td>
<td>$10.97</td>
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<tr>
<td>1201202</td>
<td>BONIDE Thuricide Liquid Concentrate - 16 oz.</td>
<td>$18.00</td>
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</table>

GRASSHOPPER CONTROL

Nolo Bait

Put An End To Destructive Grasshoppers & Crickets!

**TARGET:** Grasshoppers and mormon crickets.

**DESCRIPTION:** Approved for organic production by NOP, this bait is made from flaky wheat bran that is coated with *Nosema locustae*. The wheat bran serves as a lure; adult insects find it irresistible. Once ingested by a grasshopper or cricket, *Nosema locustae* (a single-cell protozoa) creates a disease that is deadly to those specific insects but will not harm other living species. Infected insects will soon weaken and die; with the younger ones dying in as little as a week. As they weaken and die, grasshoppers will eat their dead comrades and become infected as well. *Nosema* works best when applied to younger stages of hoppers (1/4 - 1/2” long). Heavy infestations may require repeat applications.

**SUGGESTED USE:** When applying, do not allow product to come into contact with fruit or vegetables. For best results, use before 13 weeks after formulation. Apply to lawns and gardens at a minimum rate of 5 tsps. per 100 sq. ft. Apply by hand, by shaker can or spreader. Include a buffer zone around area to be treated.

<table>
<thead>
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<th>Item Code</th>
<th>Product Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1160000</td>
<td>Nolo Bait - 1 lb. Bag</td>
<td>$21.00</td>
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<tr>
<td>1160001</td>
<td>Nolo Bait - 5 lb. Bag</td>
<td>$51.00</td>
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</table>

Cannot be shipped to the following states: AK, CT, DE, DC, HI, IL, IN, LA, ME, MD, MA, MN, MS, NH, NJ, NY, ND, PA, PR, RI, SD, VT, VI, VA, WV, WI

ADULT MOTH CONTROL

Large Plastic Delta Trap

This Work-Horse Of A Trap Will Last & Last!

<table>
<thead>
<tr>
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<th>Product Description</th>
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<tbody>
<tr>
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<td>Large Plastic Delta Trap - Pack of 5</td>
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<tr>
<td>1230436</td>
<td>Large Plastic Delta Trap - Pack of 10</td>
<td>$66.50</td>
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Scentry Wing Trap

You’ll Get Options & Economy With This Trap!

<table>
<thead>
<tr>
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<th>Product Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1230440</td>
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<tr>
<td>1230441</td>
<td>Scentry Wing Trap - Pack of 10</td>
<td>$35.00</td>
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Delta Trap

Catch Those Pests With Ease!

<table>
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</thead>
<tbody>
<tr>
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<td>Delta Trap - Pack of 10</td>
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</tbody>
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Gypsy Moth Trap

Moth Pests Disappear With This “Milk Carton” Trap!

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Description</th>
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</thead>
<tbody>
<tr>
<td>1230430</td>
<td>Gypsy Moth Trap - Pack of 5</td>
<td>$10.45</td>
</tr>
<tr>
<td>1230431</td>
<td>Gypsy Moth Trap - Pack of 10</td>
<td>$18.99</td>
</tr>
</tbody>
</table>


Call 1-800-827-2847 or Order Online www.arbico-organics.com
Slug Gone

Innovative & Sustainable Slug Control Using Waste Wool.

TARGET: Slugs and snails.

DESCRIPTION: This ingenious product comes to us from the UK, where they know a thing or two about slugs and wool. As it turns out, gastropods can’t tolerate wool. It draws moisture from their foot as they move across it and the scratchiness of the hooks and barbs in the wool fibers is extremely irritating to them. Faced with crossing this sort of barrier, slugs and snails will happily move on without being harmed. Produced from 100% waste wool (the bits of wool that are left over after a sheep has been sheared), this product is biodegradable, helps save water, keeps roots cool, acts as a soil conditioner as it biodegrades, and will not harm children, pets or edibles. This inventive way to use wool that would otherwise be discarded has been highly acclaimed in Britain and has won many green industry awards there.

SUGGESTED USE: For maintenance purposes, use one per 400 sq. ft.; for heavy infestation, use one per 10 sq. ft.

Slug Gone - 3.5 Liter Bag
1272002 Trap w/1 Month Supply of Bait $11.25
1272004 2 Traps plus (4) 2-Month Baits $42.55
1272005 5 Traps plus (10) 2-Month Baits $99.00
1272006 10 Traps plus (20) 2-Month Baits $190.00
1272007 (1) 2-Month Bait Refill $7.75
1272008 Pack of 5 2-Month Bait Refills $36.25
1272008 Pack of 10 2-Month Bait Refills $67.50

Snailer Snail & Slug Trap

One Way In & No Way Out For Snails!

TARGET: Snails, slugs, earwigs & sowbugs.

DESCRIPTION: The special design of this trap will last for years and keeps water and debris out but entices destructive snails and slugs in. You can be comfortable using this trap around children and pets — its bait is chemical-free and natural. Each bait lasts for approximately 30 days. Trap comes with one bait, measuring spoon and instructions.

SUGGESTED USE: For maintenance purposes, use one per 400 sq. ft.; for heavy infestation, use one per 10 sq. ft.

Snailer Snail & Slug Trap
1272001 Trap w/1 Month Supply of Bait $11.25
1272004 2 Traps plus (4) 2-Month Baits $42.55
1272005 5 Traps plus (10) 2-Month Baits $99.00
1272006 10 Traps plus (20) 2-Month Baits $190.00
1272007 (1) 2-Month Bait Refill $7.75
1272008 Pack of 5 2-Month Bait Refills $36.25
1272008 Pack of 10 2-Month Bait Refills $67.50

Sluggo®

Wipes Out Slugs & Snails!

TARGET: Snails and slugs.

DESCRIPTION: Made from a mix of biodegradable wheat gluten attractant and naturally occurring iron phosphate, this product will help control pest snails or slugs. Once consumed, it interferes with calcium metabolism which inhibits feeding and causes death in about 3-6 days.

SUGGESTED USE: Apply about 0.5-1 lb./1,000 sq. ft. or 20-40 lbs./acre.

Sluggo®

1271109 Sluggo 2.5 lb. Jug $15.75
1271108 Sluggo 10 lb. Bottle $58.49
1271104 Sluggo 40 lb. Bag $138.95
Larger quantities available.

Sluggo® Plus

Save Your Plants From Slugs!

TARGET: Kills earwigs, cutworms, sowbugs (roly poly), pillbugs, crickets, slugs and snails.

DESCRIPTION: This easy-to-use pellet formula kills insects, slugs and snails outdoors. Contains Spinosad, created from the soil bacterium, Saccharopolyspora spinosa, that is toxic to a variety of insect pests and other pests, including slugs. Use on vegetable gardens, fruit trees, lawns, flowers, shrubs and non-commercial greenhouses.

SUGGESTED USE: Apply bait on the soil around/close to the targeted plants at a ratio of ~1/2-1 lb./1,000 sq. ft.; Wet ground before applying bait; do not use more than 3 times in a 30-day period; do not apply within 3 days of harvest; best when applied in the evening.

Sluggo® Plus

1271114 Sluggo Plus 2.5 lb. Jug $22.75
1271116 Sluggo Plus 10 lb. Jug $66.50

Larger quantities available.
**Milky Spore Powder**

**Specific, Long Lasting Larval Control.**

**TARGET:** Japanese beetle grubs.

**DESCRIPTION:** Contains *Bacillus popilliae* bacterium, lethal to soil-borne grub stages of Japanese beetles. Grubs that normally feed on roots of grass and vegetables will ingest the bacterium, which will cause death in about 1-3 weeks. As grubs decompose they re-release bacteria spores. The spores can remain in the soil for about ten years, and in some cases up to 20 years.

In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Hb Beneficial Nematodes (see pages 18-19), which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

**SUGGESTED USE:** Use All-Purpose Dispenser Tube for easy application (see page 54). White chalk carries the bacterium, and the resultant treated area should resemble a checkerboard. Water within about 48 hours for about 15-20 minutes to permeate into soil and do not mow or rake until thoroughly soaked.

Apply about 1 tsp., every 4 ft., in rows 4 ft. apart. 10 oz. covers = 2,500 sq. ft., 40 oz. covers = 1/4 acre, 50 lbs. covers = 4.5 acres.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Coverage</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1216001</td>
<td>Milky Spore Powder - 10 oz. - Covers = 2,500 sq. ft.</td>
<td>$28.60</td>
<td></td>
</tr>
<tr>
<td>1216040</td>
<td>Milky Spore Powder - 40 oz. - Covers = 1/4 acre</td>
<td>$83.50</td>
<td></td>
</tr>
<tr>
<td>1216050</td>
<td>Milky Spore Powder - 50 lb. Drum* - Covers = 4.5 acres</td>
<td>CALL</td>
<td></td>
</tr>
<tr>
<td>1216052</td>
<td>All-Purpose Dispenser Tube</td>
<td>$14.50</td>
<td></td>
</tr>
</tbody>
</table>

*Call for freight quote.

**Where Are Japanese Beetles Found?**

Japanese Beetles are native to Japan. They were first found in the United States in 1916 in New Jersey and it is believed they arrived before inspections of commodities entering the country were required. Since then, they have spread to many states in the United States including: AL, AR, CT, DE, GA, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV. If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.

---

**Milky Spore Granular**

**A New Formulation For Use In A Drop Spreader.**

**TARGET:** Japanese beetle grubs.

**DESCRIPTION:** Contains spores of the bacteria *Bacillus popilliae*, which work specifically against the grub stage of the Japanese beetle. Once Milky Spore is in the soil, grubs will ingest the bacterium as they feed on roots. The spores will then multiply inside the grub, leading to its death in 1-3 weeks. As the grub decomposes it will release the spores in their increased numbers back into the soil. Will not harm people, animals, plants or beneficial insects.

**SUGGESTED USE:** For best results, apply with a drop spreader (available online) in the spring, summer and fall for 2 consecutive years. This allows the Milky Spore to build up in the soil. After that, the spores will work on their own for several years. After the 6th application, control can last up to 10 years. 1 lb. of material will cover 350 sq. ft. and 20 lbs. bag will cover 7,000 sq. ft.

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<tr>
<th>Item Code</th>
<th>Description</th>
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<td>1216071</td>
<td>Milky Spore Granular - 20 lb. Bag, Pallet of 21*</td>
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<tr>
<td>1216072</td>
<td>Milky Spore Granular - 20 lb. Bag, Pallet of 42*</td>
<td>CALL</td>
<td></td>
</tr>
</tbody>
</table>

*Call for freight quote.

**Cannot be shipped to the following states:** OR, WA
**Summerset® AllGuard™**
This Spray Repels Lots Of Insects – & The Rain!

**TARGET:** For use in repelling listed insects from vegetable gardens, flowers, ornamentals and lawns.

**DESCRIPTION:** This highly concentrated repellent uses Garlic Juice to fend off insects and keep them away. The natural sulphurs in Garlic Juice are repugnant to the insects that plague plants and trees. There will be a garlic odor when sprayed, but the smell will dissipate in about 30 minutes. Use it on most anything you grow; it won’t leave a garlic taste on your crops. SummerSet AllGuard is blended with a rain-resistant additive that will keep the product on the plants and trees. There is no need to use additional adjuvants, stickers or surfactants.

**SUGGESTED USE:**
- For preventive treatment: Add 2 oz./gal. water. Make first application at foliar emergence. Repeat every 3-4 weeks.
- For infestation control: Add 4 oz./gal. Spray every 2-3 days until insects are under control and then maintain on a 3-4 week cycle.
- For ticks and mosquitoes: Mix 6 oz./gal.

**Organic JMS Stylet-Oil®**
Smother Overwintering Insect Pests & Mites With This Food Grade Dormant Oil!

**TARGET:** Powdery mildew, mites, whiteflies, leafminers and insect transmitted diseases.

**DESCRIPTION:** Use this multi-purpose, year-round fungicide, insecticide and antiviral spray oil in greenhouses, on field crops and on fruit trees. Kills powdery mildew on contact and prevents occurrence for up to 14 days and controls mites, whiteflies and leafminers. Made from paraffinic oil and is colorless, tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

**SUGGESTED USE:** For gardens, apply approx. 3 Tbsp./gal. water with a sprayer. For larger areas, apply about 1-2 gal./100 gal. water and use 25-150 gal. of dilute/acre depending on crop, timing and desired treatment. Apply weekly or bi-weekly depending on severity of condition. Begin at the onset of plant growth, fungus emergence, disease and insect infestation. See label online for detailed rates and instructions.

**Siegel Products**
SuffOil-X®
OMRI Listed Pre-Emulsified Mineral Oil
Suffocates Many Soft-Bodied Insects & Controls Certain Fungal Diseases.

**TARGET:** Aphids, cankerworms, leafhoppers, leafrollers, mealybugs, mites, plant bugs, psyllids, soft scales, webworms, whiteflies, rust and powdery mildew.

**DESCRIPTION:** Made with refined pre-emulsified mineral oil, this suffocant creates the best coverage with limited risk of plant damage. Using a pre-emulsified creates a lighter oil that dries faster, will not cause photoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

**SUGGESTED USE:** Can be used with a wide variety of crops indoors or outdoors. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

**Shipping Restrictions:** Cannot ship via US Mail or air shipping methods.

**Sodium Azide**
Repel & Smother Soft Bodies & Fungal Diseases

**TARGET:** Aphids, whiteflies, leafhoppers, leafrollers, mealybugs, plant bugs, psyllids, soft scales, webworms, and rust and mildew.

**DESCRIPTION:** This compound is labeled for both insect and fungal control. It suffocates overwintering insects and is an effective fungicide for controlling powdery mildew. When combined with JMS Stylet-Oil, it provides a non-phytotoxic, rapid-acting control for soft-bodied insects and many fungal diseases.

**SUGGESTED USE:** Apply at 1 gallon per 100 gallons of water or as directed by the label. Apply at the onset of plant growth and/or fungus emergence. Spray thoroughly to ensure coverage of leaves, stems, and flowers. Repeat every 7-10 days as needed to control infestations.

**Organic JMS Stylet-Oil®**
Smother Overwintering Insect Pests & Mites With This Food Grade Dormant Oil!

**TARGET:** Powdery mildew, mites, whiteflies, leafminers and insect transmitted diseases.

**DESCRIPTION:** Use this multi-purpose, year-round fungicide, insecticide and antiviral spray oil in greenhouses, on field crops and on fruit trees. Kills powdery mildew on contact and prevents occurrence for up to 14 days and controls mites, whiteflies and leafminers. Made from paraffinic oil and is colorless, tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

**SUGGESTED USE:** For gardens, apply approx. 3 Tbsp./gal. water with a sprayer. For larger areas, apply about 1-2 gal./100 gal. water and use 25-150 gal. of dilute/acre depending on crop, timing and desired treatment. Apply weekly or bi-weekly depending on severity of condition. Begin at the onset of plant growth, fungus emergence, disease and insect infestation. See label online for detailed rates and instructions.

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OMRI Listed Pre-Emulsified Mineral Oil
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**DESCRIPTION:** Made with refined pre-emulsified mineral oil, this suffocant creates the best coverage with limited risk of plant damage. Using a pre-emulsified creates a lighter oil that dries faster, will not cause photoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

**SUGGESTED USE:** Can be used with a wide variety of crops indoors or outdoors. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

**Siegel Products**
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Repel & Smother Soft Bodies & Fungal Diseases

**TARGET:** Aphids, whiteflies, leafhoppers, leafrollers, mealybugs, plant bugs, psyllids, soft scales, webworms, and rust and mildew.

**DESCRIPTION:** This compound is labeled for both insect and fungal control. It suffocates overwintering insects and is an effective fungicide for controlling powdery mildew. When combined with JMS Stylet-Oil, it provides a non-phytotoxic, rapid-acting control for soft-bodied insects and many fungal diseases.

**SUGGESTED USE:** Apply at 1 gallon per 100 gallons of water or as directed by the label. Apply at the onset of plant growth and/or fungus emergence. Spray thoroughly to ensure coverage of leaves, stems, and flowers. Repeat every 7-10 days as needed to control infestations.

**Sodium Azide**
Repel & Smother Soft Bodies & Fungal Diseases

**TARGET:** Aphids, whiteflies, leafhoppers, leafrollers, mealybugs, plant bugs, psyllids, soft scales, webworms, and rust and mildew.

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ESSENTIAL OILS

SNS-217™ and SNS-217C™

These Botanical Extracts Will Not Harm Plants But Are Fatal To Spider Mites.

TARGET: Use to kill and repel adult spider mites and to prevent hatching of their eggs.

DESCRIPTION: Using food grade rosemary extracts and oils, these products will kill adult spider mites and prevent their eggs from hatching. The natural salts and fatty acids derived from the rosemary disrupt the insect cell structure and the permeability of its membranes; this will quickly cause the insect to dehydrate and die. Additionally, once eggs are coated with the oily liquid, their respiration will be blocked and they will perish without hatching. The plant will absorb some of the components of these products, which will then form a barrier to any additional mites that may try to feed on it.

SUGGESTED USE: RTU - 4 quarts or 1 gallon solution will cover approximately 550 sq. feet. Concentrate - Mix 21 oz. (approx. 2 3/4 cups) to 26 oz. (3 1/4 cups) of concentrate per gallon of water. For best results use warm (70°F) distilled or chlorine-free water. Mixed solution may be used immediately or stored for up to 2 weeks.

Guard ‘N Spray™

Contains Citric Acid & 3 Botanical Oils For Maximum Pest & Disease Control.

TARGET: Spider mites, broad mites, whiteflies, aphids, fungus gnats, flies, beetles, thrips and powdery and downy mildews.

DESCRIPTION: This OMRI listed spray will treat, manage, eliminate and repel key insect pests. It will also treat and control downy and powdery mildews. This highly-concentrated formula uses a combination of citric acid and 3 botanical oils to suffocate, desiccate and emaciate its targets in all their life stages. Can be used during the vegetative growth stages, but should not be used in mid-to late flowering. Contains no soy or corn oil and indirect contact will not harm beneficial insects.

SUGGESTED USE: Use: Can be applies as a foliar spray or soil drench. Add 15-30 ml./gal. water. 32 oz. concentrate makes about 32 gallons of Guard ‘N Spray at full strength of 30 ml./gal. of water. Spray 1-3 x per day depending in infestation level: preventative: 2-3 x daily at 15 ml./gal.; combative: 2-3 x daily at 30ml./gal. For soil drench: dilute to 10-15 ml./gal. and apply directly to root zone.

PureCrop1

Plant-Based Biostimulant, Insecticide & Fungicide.

TARGET: All sap sucking insects (mites, thrips, aphids, whiteflies, leaf hoppers), mold, mildew and diseases (botrytis, fusarium wilt, powdery mildew and more).

DESCRIPTION: PureCrop1 uses advanced biochemistry to eliminate pests, mold and mildew, while increasing plant health. Although it’s active ingredients are corn and soybean oil, it is in fact NOT an oil. Through the use of Nanotechnology, it is a rearrangement of molecules to create a colloidal micelle. Due to its small size and electrical properties, PureCrop1 is a natural surfactant, carrier of nutrients and increases sugar levels. When applied as a foliar spray or root drench, it leaves no residue behind and tests clean parts per billion. This product can be used on all stages of growth even up to day of harvest.

SUGGESTED USE: As a preventative foliar spray 1 oz. per gallon every 7-10 days. For knock down foliar spray 2 oz. per gallon every 2-3 days until desired results. To maintain long term biostimulant benefits spray 2 oz. per gallon once a week. As a root drench or general surfactant spray 1.24 oz. per gallon of water.

INSECTICIDES

Essentria® IC-3 - Concentrate

Kills & Controls Most Crawling & Flying Insects Most Anywhere You Find Them.

TARGET: More than 60 flying and crawling pests including aphids, bedbugs, caterpillars, flies, mites, mosquitoes and ticks.

DESCRIPTION: This essential oil insecticide contains rosemary oil, geraniol and peppermint oil to provide immediate knockdown and long-term residual control. It can be used in food preparation areas, schools and other places where there is a high level of human traffic. It can also be applied directly to livestock, horses and poultry. This FIFRA 25(b) exempt product has Octopamine blocker technology and has no water setbacks.

SUGGESTED USE: Can be used indoors, outdoors, in fogging and mosquito misting systems on plants, turf and ornamentals and as a perimeter barrier. Can also be applied directly to livestock, horses and poultry. May be diluted with water or oil (for livestock applications). Use lower application rates for maintenance and higher for infestations. General pest control indoors (don’t apply directly to houseplants): 0.5-6 fl. oz./gal. water. Bedbugs: 1-4 fl. oz./gal. water and apply as a spot treatment. Mound drench for fire ants: 2-4 fl. oz./gal. water. Mosquitoes and other biting insects: 1-3 fl. oz./gal. water. Turf/grass: 2-4 fl. oz./gal. water. Trees and shrubs: 1-2 fl. oz./gal. water.

PureCrop1 - 1/2 Gallon

1274200 PureCrop1 - 16 oz. $45.00
1274201 PureCrop1 - 1/2 Gallon $120.00
1274202 PureCrop1 - 1 Gallon $225.00
1274203 PureCrop1 - 2.5 Gallons $552.00

Call 1-800-827-2847 or Order Online www.arbico-organics.com

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**Monterey Fruit Tree Spray Plus**

OMRI Listed Spray Combining Pyrethrins & Neem Oil Used As Insecticide, Fungicide & Miticide.

**Target:** Powdery mildew, downy mildew, rusts and leaf spot; aphids, spider mites, whiteflies, loopers, leafminers and more.

**Description:** Monterey Fruit Tree Spray Plus is a natural control spray for many common pest insects and plant diseases, such as powdery mildew, downy mildew, rusts and leaf spot. A mixture of pyrethrins and 70% Neem Oil ensures that Monterey Fruit Tree Spray Plus is fast-acting when sprayed on your plants up until the day of harvest.

**Suggested Use:** Concentrate: Mix 2 tablespoons of Monterey Fruit Tree Spray Plus per gallon of water and thoroughly apply to all leaf surfaces including the undersides of the leaves. RTS: Attach to a hose with water access and follow spraying directions on the label.

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<td>1257931</td>
<td>Fruit Tree Spray Plus - 1 Pint RTS</td>
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**Monterey 70% Neem Oil**

Effective Against Indoor & Outdoor Insect Pests & Fungal Diseases!

**TARGET:** Use as an insecticide/miticide and/or fungicide on a wide range of ornamental plants, vegetables, trees and shrubs, as well as fruit and nut crops.

**DESCRIPTION:** Insecticide/Miticide Use: Controls spider mites, aphids, whiteflies, scale, beetles, leafrollers and other insect pests. Fungicide Use: Effective against powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, Botrytis, needle rust, blights and Alternaria.

**SUGGESTED USE:** Insecticide/Miticide Use: Mix rate: 1-2 oz./gallon of water. Thoroughly spray all plant surfaces (including the undersides of leaves) until wet. Fungicide Use: Apply every 7-14 days; for heavy infestation, apply every 7 days. Use 1 oz./gallon of water & thoroughly spray all plant surfaces until wet. Apply on a 7-14 day schedule until control is achieved.

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<td>1555614</td>
<td>Monterey 70% Neem Oil - 1 Pint Concentrate</td>
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<td>RTU (1555615)</td>
<td>cannot be shipped to the following states: ND, WY</td>
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**BONIDE® Neem Oil RTU & Concentrate**

Three Great Products In One – A Fungicide, Insecticide, & Miticide.

**TARGET:** As an insecticide/miticide on eggs, larvae and adults of aphids, spider mites, scale, whiteflies, beetles, leafroller, etc. As a fungicide on various diseases including powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, Botrytis, needle rust, scab, twig and tip blight and Alternaria.

**DESCRIPTION:** Derived from the Neem seed, this concentrated oil is an excellent pest and disease control choice for use on many plants including roses, flowers, vegetables, herbs, spices, houseplants, trees, turf and shrubs. Can be used on contact for existing pests/diseases and as a dormant spray to control overwintering pest eggs. Can be used until day of harvest.

**SUGGESTED USE:**
- **Insecticide:** Mix 2-4 tablespoons (1-2 fl. oz.) per 1 gallon of water thoroughly and spray all plant surfaces, including underside of leaves, until completely wet.
- **Fungicide:** For present disease, use at 7-14 day intervals, and for prevention and continued control use at 14 day intervals.
- **Caution:** This product is toxic to bees exposed to direct treatment.

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**ECOWORKS EC®**

An Organic 4-in-1 Pesticide, Nematicide, Fungicide and Miticide.

**TARGET:** Aphids, flies, mealybugs, psyllids, scales, spider mites, thrips, whiteflies, powdery & downy mildews, rust, botrytis and more.

**DESCRIPTION:** Derived from 100% cold-pressed neem oil, ECOWORKS EC contains Azadiractins, neem limoniods, fatty acids, esters and synergistic inerts for top-notch bioactivity. Effective against a wide range of biting and sucking insects, soil-borne pests, and several devastating fungal diseases, this is also an exceptional fly repellent. Can be applied as a foliar spray, soil drench, in soil-less media or in recirculating systems. This residue-free formulation is EPA registered, UV stabilized to reduce risk of crop burn and has a 0-day PHI. Can be used with beneficial insects.

**SUGGESTED USE:**
- **Foliar Application:** 2 tsp. (10 mL)/gal. water for disease and pest control. 2-3 treatments required for optimal results. For severe infestations, spray every 5-7 days. For preventative purposes, spray every 7-10 days. Soil Drench or Recirculating System Applications - Apply 1 pint (16 oz.)/gal. water once every 7-14 days at a mixing rate of 2-8 mL/gal.

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</table>
Debug® Turbo

Controls Over 200 Pest Insects, Plant Parasitic Nematodes & Other Plant Pathogens.

TARGET: Red ants, cutworms, grubs, chinch bugs, crickets, aphids, whiteflies, thrips, beetles, leafhoppers, spider mites, caterpillars, cabbage loopers, armyworms, grasshoppers, maggots, weevils, chafers, spider mites, spittlebugs, webworms, Rhizoctonia solani, Sclerotinia rolfsii, Sclerotinia sclerotiorum, Fusarium oxysporum, rust and powdery mildew.

DESCRIPTION: OMRI listed Debug Turbo is an insecticide, fungicide, miticide, and nematicide. Use to control insects in various stages of development, repel insects from entering treated areas and to deter insects from feeding on treated surfaces. It also acts as a growth regulator when ingested by young insects. Contains a high concentration of azadirachtin, tri-terpenoids and neem oil. It has a low REI and PHI and can be used without harm to beneficial insects.

SUGGESTED USE: Mix 2 tbsps (1 oz)/32 oz of water in spray container. Spray has a low REI and PHI and can be used without harm to beneficial insects. Contains a high concentration of azadirachtin, tri-terpenoids and neem oil. It has a low REI and PHI and can be used without harm to beneficial insects.

SUGGESTED USE: Every 2 weeks (more or less depending on infestation levels). A sticker agent may be added to product for more complete coverage on waxy or pubescent plant surfaces. Do not exceed the rate of 22.5 fl. oz. (20 g.) per acre per application.

AzaGuard®

This OMRI Listed Product Works On A Wide Range Of Ornamental, Forestry, Food & Non-Food Crops.

TARGET: For controlling and repelling over 300 listed insect species, including aphids, beetles, armyworms, fungus gnats, leafhoppers, caterpillars, mealybugs, webworms, plant parasitic nematodes and root knot nematodes.

DESCRIPTION: Azadirachtin, extracted from the neem tree, is the active ingredient here. Insects are repelled by the taste and smell of neem, but azadirachtin also works as a molting/growth disruptor. This Insect Growth Regulator (IGR) disrupts the life cycle between larval, pupal and nymphal stages by impeding the metabolism of ecdysone. Ecdysone is necessary for molting, without which the insect cannot mature into its next growth stage and will, ultimately, die. NOP Compliant.

SUGGESTED USE: Apply AzaGuard as soon as insects appear; do not wait until plants are heavily infested. Apply with any powered or manual pesticide application equipment. The most commonly used rate of application is 2 pints per acre (32 fl. oz. = 946 ml) Higher populations of adults and/or hard to kill insects may require 3 pints per acre (48 fl. oz. = 1.42 L) or 3.5 pints per acre (56 fl. oz. = 1.66 L).

AzaGuard - 32 oz. - Case of 4

AzaGuard - 32 oz. - Case of 4

Azera Gardening

This Unique Mix Of Azadirachtin & Pyrethrins Offers Exceptional Insect Control.

TARGET: This product will kill the larval, pupal and adult stages of a broad spectrum of over 200 listed insects.

DESCRIPTION: This organic gardening pesticide couples two plant-based powerhouses (Azadirachtin and Pyrethrins) to fight both hard-bodied and soft-bodied insects. Hard-to-kill insects will not get past Azera; they will succumb to the quick knock-down kill or perish more slowly once they ingest it. One of these two processes will kill all stages of an insect’s life (larval, pupal and adult), effectively eliminating all future generations. This OMRI listed product is soft on the environment and can be applied the same day of harvest.

SUGGESTED USE: Apply Azera as soon as insects appear; do not wait until plants are heavily infested. Apply with any powered or manual pesticide application equipment. The most commonly used rate of application is 2 pints per acre (32 fl. oz. = 946 ml) Higher populations of adults and/or hard to kill insects may require 3 pints per acre (48 fl. oz. = 1.42 L) or 3.5 pints per acre (56 fl. oz. = 1.66 L).

SoluNeem®

This Water-Soluble Neem Product Is The First Of Its Kind.

TARGET: Whiteflies, aphids, sawflies, caterpillars, beetles, scale insects, mole crickets, mushroom flies, leaf miners, mealybugs, psyllids, bugs, flies, beetles, weevils, borers and more.

DESCRIPTION: Made from organic Neem Seed Kernel Extract, this product gives you all the familiar benefits of Neem products (as an insect growth regulator, anti-feedant, anti-ovipository and excellent repellent), without the odor, stickiness, residue on plants or need for added solvents. Not harmful to birds, mammals and beneficial insects, including bees.

SUGGESTED USE: Apply to soil-less media or soil via drench, spray, sub-surface treatments, tree injection, hydroponics and chemigation systems. Use in a fogger to repel adult flies. Drip application on established plants: 5 gr/5 gal face treatments, tree injection, hydroponics and chemigation systems. Use in a trigger type sprayer. Spray when pests first appear and repeat at 5-7 day interval as required. A sticker agent may be added to product for more complete coverage on waxy or pubescent plant surfaces. Do not exceed the rate of 22.5 fl. oz. (20 g.) per acre per application.

Azera® Gardening

This Unique Mix Of Azadirachtin & Pyrethrins Offers Exceptional Insect Control.

TARGET: This product will kill the larval, pupal and adult stages of a broad spectrum of over 200 listed insects.

DESCRIPTION: This organic gardening pesticide couples two plant-based powerhouses (Azadirachtin and Pyrethrins) to fight both hard-bodied and soft-bodied insects. Hard-to-kill insects will not get past Azera; they will succumb to the quick knock-down kill or perish more slowly once they ingest it. One of these two processes will kill all stages of an insect’s life (larval, pupal and adult), effectively eliminating all future generations. This OMRI listed product is soft on the environment and can be applied the same day of harvest.

SUGGESTED USE: Apply Azera as soon as insects appear; do not wait until plants are heavily infested. Apply with any powered or manual pesticide application equipment. The most commonly used rate of application is 2 pints per acre (32 fl. oz. = 946 ml) Higher populations of adults and/or hard to kill insects may require 3 pints per acre (48 fl. oz. = 1.42 L) or 3.5 pints per acre (56 fl. oz. = 1.66 L).

Suggested Use: Every 2 weeks (more or less depending on infestation levels). A sticker agent may be added to product for more complete coverage on waxy or pubescent plant surfaces. Do not exceed the rate of 22.5 fl. oz. (20 g.) per acre per application.

SUGGESTED USE: Apply using a power or pump sprayer or a hand-held trigger type sprayer. Spray when pests first appear and repeat at 5-7 day interval as required. A sticker agent may be added to product for more complete coverage on waxy or pubescent plant surfaces. Do not exceed the rate of 22.5 fl. oz. (20 g.) per acre per application.

SUGGESTED USE: Mix 2 tbsps (1 oz)/32 oz of water in spray container. Spray has a low REI and PHI and can be used without harm to beneficial insects. Contains a high concentration of azadirachtin, tri-terpenoids and neem oil. It has a low REI and PHI and can be used without harm to beneficial insects.

AzaGuard - 32 oz. - Case of 4

AzaGuard - 32 oz. - Case of 4

AzaGuard - 32 oz. - Case of 4
**INSECTICIDES**

**BEAUVARIA BASSIANA**

**BioCeres® WP**

This Versatile Biopesticide Can Be Used In A Tank Mix Or As A Stand-Alone.

**TARGET:** Aphids (Aphidoidea), whiteflies (Aleyrodoidea), thrips (Thysanoptera), plant bugs (Lygus lineolaris), spotted wing drosophila (Drosophila suzukii), borers, beetles and weevils.

**DESCRIPTION:** This OMRI Listed biopesticide uses the power of Beauveria bassiana to control insects in developing and adult stages. Upon application, the spores will adhere to and begin penetrating the insect’s outer shell. Once inside the insect, the spores will continue to multiple until they reach its hemolymph (blood). When the spores encounter the blood they will begin feeding on it. Death will occur in 7 to 14 days. 0 pre-harvest interval and 4-hour REI.

**SUGGESTED USE:** Repeat at 5-7 day intervals as needed. Apply 1-3 lbs. per acre, according to the density of the insect population. For conventional air and ground applications, use at least 50 gallons of spray volume per acre. Thoroughly cover plant foliage with spray solution, but not to runoff.

**BotaniGard® ES & 22WP**

*Beauveria bassiana*

Beauveria bassiana is an entomopathogenic fungi that causes white muscadine disease in a range of insects including whiteflies, aphids, thrips, grasshoppers and certain types of beetles. *B. bassiana* spores simply need to come in contact with a host. Once the host insect is infected, the fungus rapidly grows inside of the insect, feeding on the nutrients present in the host’s body and producing toxins in the process. When the host dies, the *B. bassiana* covers the carcass in a layer of white mold that produces more infective spores.

**BioCeres® WP**

1332890 BioCeres WP - 1 lb. Bag $80.00

1332892 BioCeres WP - Case of 1 lb. Bags/12 ct. $880.00

**Mycotrol® WPO**

A New Formulation For A Reliable Favorite!

**TARGET:** Adult and immature stages of whiteflies, thrips, aphids, psyllids, mealybugs, leafhoppers/plant hoppers, scarab beetles and plant bugs (Heteroptera) and more.

**DESCRIPTION:** Mycotrol WPO is a wettable powder mycoinsecticide that contains live spores of the naturally occurring fungus, Beauveria bassiana. In fact, this formulation contains the highest concentration of any insecticide containing Beauveria. These spores adhere to the host insect and use enzymes to attack and ultimately dissolve the cuticle that surrounds and contains the body cavity. This fungal penetration will ultimately kill the unwanted insects but will not harm beneficials.

**SUGGESTED USE:** For use in greenhouses, nurseries, landscape and interiorscape settings. Mycotrol WPO can be used for a wide range of vegetables, fruits and berries, herbs and spices, ornamentals, ground covers, trees and turf. Apply Mycotrol WPO using hand-held, ground spray equipment and/or low volume application equipment.

**Application Rates of BotaniGard ES**

- For whiteflies and aphids, use about .5-1 quarts per 100 gallons of water.
- For thrips, use about 1-2 quarts per 100 gallons of water.
- For other insects, use about 5-2 quarts per 100 gallons of water.
- If applying as a high or low volume spray, use up to 3 quarts per 100 gallons of water to cover an area of 5,000-20,000 sq. ft.

**Application Rates of BotaniGard 22WP**

- For whiteflies and aphids, use .5-1 lb. of BotaniGard 22WP per 100 gallons of water.
- For thrips, use 1-2 lbs. of BotaniGard 22WP per 100 gallons of water.
- For other labeled insects, use .5 to 2 lbs. of BotaniGard 22WP per 100 gallons of water.
- Rate depends upon infestation level, consult package instructions before application.

**BotaniGard ES**

1332801 BotaniGard ES - 1 Quart $84.00

1332799 BotaniGard ES - 1 Gallon $260.00

**BotaniGard 22WP**

1332800 BotaniGard 22WP - 1 lb. Powder $88.00

**BotaniGard ES**

1332785 Mycotrol WPO - 1 lb. $100.00

1332795 Mycotrol WPO - 1 lb. (Case of 12) $1,070.00

**Ships via UPS Ground & FedEx Ground ONLY.**

**Mycotrol® WPO**

1332785 Mycotrol WPO - 1 lb. $100.00

1332795 Mycotrol WPO - 1 lb. (Case of 12) $1,070.00

**Ships via UPS Ground & FedEx Ground ONLY.**

**Shipping Restrictions:** Cannot ship via US Mail.
**OTHER BIORATIONAL**

**Grandevo® & Grandevo® WDG**

*Get Widespread Control With This Multi-Action Microbial-Based Insecticide/Miticide.*

**TARGET:** Aphids, whiteflies, thrips, mealybugs, mites, armyworm, Asian Citrus Psyllids, leafhoppers, Lygus, cutworms, beetles, Drosophila, loopers, moths, sharpshooters, earworns, caterpillars and more.

**DESCRIPTION:** Grandevo uses the bacterium *Chromobacterium subtsugae* strain PRAA4-1 to provide long-lasting, reliable broad spectrum control of a list of labeled pests. Its mode of action is multi-faceted; it is toxic when ingested, it repels and it reduces insect reproduction. This OMRI listed and NOP compliant organic pesticide/miticide can be a valuable part of any IPM program. Can be used on a wide range of edible crops in field and greenhouse applications.

**SUGGESTED USE:** Use 1-3 lbs./100 gals. of water sprayed until just before point of runoff. Ground & aerial application: Use sufficient water to provide thorough coverage plant parts. For tank mix programs: Apply 1-2 lbs./acre. For rotational programs: Apply 2-3 lbs./acre when alternating.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>1332950</td>
<td>Grandevo - 5 lbs.</td>
<td>$112.00</td>
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<tr>
<td>1332952</td>
<td>Grandevo WDG - 6 lbs.</td>
<td>$155.00</td>
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Grandevo - 5 lbs. (**1332950**) cannot be shipped to the following states: CA

**Venerate® XC**

*This Unique Bioinsecticide Fits In Any IPM & Resistance Management Program (RMP).*

**TARGET:** Caterpillars, foliage feeding Coleopteran, aphids, whiteflies, Asian Citrus Psyllids (ACP), leafhoppers, stink bugs, mites, Lygus and more.

**DESCRIPTION:** Venerate uses killed cells of the *Burkholderia* spp. strain A396 and spent fermentation media to kill insects in fields and greenhouses. It’s toxic when ingested and works on contact to cause enzymatic degradation of exoskeletal structures and fatal interference with the molting process. Not harmful to fish, birds, most beneficials and honey bees.

**SUGGESTED USE:** Mix with water and apply as a foliar spray. Apply 1-4 qts./acre on a 7-day interval. Smaller scale applications: 2-4 Tbsp./gal. Can alternate with another product on a 7-day interval. No limit on number of applications per season. No spray buffer needed.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1332960</td>
<td>Venerate XC - 2.5 gals.</td>
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**PFR-97™ 20% WDG**

*Directed Fungal Growth Is The Key To This Remarkable Insecticide.*

**TARGET:** Aphids, black vine & root weevils, broad, russet & spider mites, leafminers, Lepidoptera caterpillars & larvae, mealybugs, plant bugs, phorid & scarid flies, thrips, whiteflies, root & wireworms.

**DESCRIPTION:** PFR-97 uses an entomopathogenic fungus, *Isaria fumosorosea* Apopka Strain 97, as its active ingredient. This is a naturally occurring, soil-borne fungus that infects and kills many insect pests. Infection, however, is not limited to soil-dwelling pests; it is spread above ground by sick and dying insects. This product has successfully harvested this fungus to control targeted insects. Germination & growth occurs over several days, so application should begin at the first sign of pests, before infestation. Can be mixed with most other products, but the only fungicide it can be mixed with are copper-based ones. 4 hour REI, OMRI listed, NOP approved.

**SUGGESTED USE:** Standard application rate: Apply PFR-97 to moist or pre-irrigated soil at 1-2 lbs. per acre of soil. Spray volume depends on crop size/type: 20-50 GPA on small or young crops; 80-100 GPA or more on full grown crops.

<table>
<thead>
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<td>1332870</td>
<td>PFR-97 20% WDG - 5 lbs.</td>
<td>$185.00</td>
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</table>

Cannot be shipped to the following states: AK, AL, AR, IA, UT

**Green Cleaner**

*An Industry Favorite Because It Works So Well!*

**TARGET:** Soft-bodied insects including spider mites, aphids, whiteflies, broad mites & russet mites. Also effective against powdery mildew.

**DESCRIPTION:** The mixture of Soybean oil, Sodium Lauryl Sulfate, alcohol and Citric acid in Green Cleaner creates a killer combination for insect pests. The oils coat the insects to suffocate or limit spore reproduction and the alcohol and citric acid dehydrates and kills insects. This process affects the mature bugs and their eggs, so the potential for insecticide resistance in future generations is effectively eliminated. You can use Green Cleaner in every stage of plants’ lives: as a dip for new cuttings, as a foliar spray during all stages of growth and to prevent cross-contamination when outsourcing plant starts.

**SUGGESTED USE:** As an insecticide, fungicide or miticide. For use on horticultural plants; not for use on feed or feed crops. Apply with any sprayer (high pressure preferred). Initial drench-2 oz. per gal.; secondary application-1 oz. per gal. (apply every 1-2 days) and weekly maintenance-1/2 oz. per gal. Apply at a rate of -1/2 oz. per gal.

<table>
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<td>4 oz. - Makes up to 8 Gallons</td>
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<td>8 oz. - Makes up to 16 Gallons</td>
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</tbody>
</table>

Larger sizes available.

Cannot be shipped to the following states: AL, AR, DC, IA, IL, IN, KS, LA, MO, MS, ND, NM, OK, SD, TN, UT, WI, WY
**PyGanic® Gardening**

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

**TARGET:** Over 100 listed pests, including aphids, beetles, caterpillars, crickets, fruit flies, fungus gnats, mites and thrips.

**DESCRIPTION:** This updated version of PyGanic offers the same ingredients and results as the former PyGanic 1.4. Pyrethrins, the active ingredient here, is made from a daisy extract and has been used effectively for a millennia. This formulation can be applied in a variety of ways, making it easy to use no matter the size of your garden. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

**SUGGESTED USE:** For use on outdoor gardens and growing areas. Not for use indoors. Not for use on plants grown for sale. Do not exceed the maximum application rates of 1.4 oz. per 1,000 sq. ft. or 59 fl. oz. per acre.

![PyGanic Gardening - 8 oz.](Image1) $20.50  
![PyGanic Gardening - 32 oz.](Image2) $49.50  
![PyGanic Gardening - 1 Gallon](Image3) $183.50  

**BotaniGard® MAXX**

*Beauveria bassiana & Pyrethrins Make A Powerful Team!*

**TARGET:** Whiteflies, aphids, thrips, psyllids, spider mites, mealybugs, leafhoppers, weevils, borers and other leaf-feeding insects.

**DESCRIPTION:** This potent biorational formulation provides a quick knock-down of insect and mite pests. The two active ingredients, *Beauveria bassiana* and Pyrethrins, work independently, yet in harmony, to provide multiple mechanisms to kill harmful insects. The pyrethrins will attack the nerve cells of the insect and the *Beauveria bassiana* strain GHA fungal spores penetrate an insect’s protective cuticle and destroy it from within.

**SUGGESTED USE:** Can be applied at a rate of up to 2 quarts per 100 gallons of water; however most target insects can be controlled at a rate of 1 quart per 100 gallons of water, 1/2 quart per 50 gallons of water or 1 pint per 25 gallons of water. For best results, use as soon as insect pests are spotted, before their population becomes too large. Results can generally be seen within 2-5 days after the first spraying. Do not reapply within 3 days, unless the infestation is extreme. If this is the case, wait 24 hours for reapplication.

![BotaniGard Maxx - 1 Quart](Image4) $87.00  
![BotaniGard Maxx - 1 Gallon](Image5) $284.00  
![BotaniGard Maxx - 2.5 Gallons](Image6) $585.00  

Case sizes available.  
**Shipping Restrictions:** Cannot ship via US Mail.
**BIOLGICAL MAGGOT CONTROL**

**Sc Beneficial Nematodes**

Add Beneficial Nematodes For Ultimate Fly Control!

**TARGET:** Fly maggots and other subterranean pests.

**DESCRIPTION:** These live microscopic organisms (non-segmented round worms) occur naturally in soil throughout the world and are parasitic to fly maggots and other subterranean pests. Upon application, they will seek out and enter maggots through body openings. Once inside, the nematode releases bacteria which kill the host maggot within 24 - 48 hours. The bacteria create a food source for the nematodes to reproduce. As the food resources within the dead pest become scarce, the nematodes exit and immediately begin searching for a new host.

**SUGGESTED USE:** Apply nematodes to “hot spot” areas where flies are breeding such as compost and manure piles, around manure and urinating sites, and watering and feeding areas using a watering can, hose end, backpack or pump sprayer or through irrigation or misting systems. Use along with Fly Eliminators and Holistic Fly Defense for ultimate fly control! Works with beneficial microbes in the area it is applied to, creating a synergy among microorganisms and larger forms of life including insects, worms, pets, livestock and people.

<table>
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<td>1220321</td>
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<td>NemAttack Sc Beneficial Nematodes - ≈250 million</td>
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<tr>
<td>1221705</td>
<td>NemAttack Sc Beneficial Nematodes - ≈500 million</td>
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</table>

*See page 19 for free shipping details.

**MANURE MANAGEMENT**

**EM•1® Microbial Inoculant**

Faster Breakdown Of Organic Matter.

**TARGET:** Accelerate decomposition & reduce odors.

**DESCRIPTION:** Consists of healthy bacillus from naturally fermented live microorganisms. Works with beneficial microbes in the area it is applied to, creating a synergy among microorganisms and larger forms of life including insects, worms, pets, livestock and people.

**SUGGESTED USE:** 2 tsp./gal. water, 1 qt./250 gal. water, 1 qt./acre up to 8 times/yr.

<table>
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<td>EM•1 Microbial Inoculant - 1 Quart</td>
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<td>1202102</td>
<td>EM•1 Microbial Inoculant - 1 Gallon</td>
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<td>1202103</td>
<td>EM•1 Microbial Inoculant - 5 Gallons</td>
<td>$290.00</td>
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</tbody>
</table>

Call for larger sizes.

**SCD Probiotics Barn Kleaner**

Great For Manure Odor & Decomposition!

**TARGET:** Manure odors and resultant pathogenic organisms and flies/insects that it attracts, manure composting operations, and cleaning of barns, corrals, paddocks, etc.

**DESCRIPTION:** Animal manures can contain harmful organisms, emit unpleasant odors and serve as natural breeding grounds for flies and other pesky insects. Composed from fourteen different species of beneficial microorganisms, this product can be used around animals to help clean areas where manure is present and can help accelerate the decomposition of manure. Use this product as part of a fly control program to stop adult flies from having a place to lay eggs and support new generations.

**SUGGESTED USE:** For barn cleaning apply approximately cup/2.5 gal. of water using a backpack sprayer or portable hand sprayer twice per week. Use on all bedding areas, directly on manure and on all surfaces, including floors, wall and ceilings. Store at room temperature and away from direct sunlight.

<table>
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<th>Product Code</th>
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<td>1202704</td>
<td>SCD Barn Kleaner - 5 Gallon</td>
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Case sizes available.

**Revenge® Fly Beater® & Odor Reducer**

Rid Yourself Of Flying & Biting Pests Plus Deodorize The Treated Area While You’re At It.

**TARGET:** All flies, gnats, fleas, mosquitoes and ticks.

**DESCRIPTION:** This product uses a potent blend of Cedar, Citronella and Clove oils in a granular formula to efficiently repel a long list of common biting and blood-sucking pests. As an added bonus, the fragrant oils will leave a pleasant scent in even the smelliest of areas. Apply to animals’ bedding to mask the animal smell and prevent flies from scent-tracking them. This 1.3 lb. container treats over 2,000 sq. ft. Initial treatments and severe infestations may require heavier applications. One treatment may be effective for up to two weeks. Temperature, moisture level and wind may affect effectiveness. For horse stalls; 1 oz/10 x 10 sq ft stall. Reapply after stall clean outs, if necessary. For around home pool, patio and porch areas: 10 oz/1,000 sq ft to treat twice the area to be occupied. Not for aquatic or food use. Do not apply directly to water.

<table>
<thead>
<tr>
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<th>Description</th>
<th>Quantity</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1202780</td>
<td>Fly Beater &amp; Odor Reducer - 1.3 lbs. Granules</td>
<td></td>
<td>$13.99</td>
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</table>

Cannot be shipped to the following states: IN, MN, Nm

Call 1-800-827-2847 or Order Online www.arbico-organics.com
WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides
Fly Eliminators are tiny ≈1/8” beneficial insects that parasitize flies in their developing pupal (cocoon) stage, before they can hatch into annoying disease-carrying adult flies. Scientifically they are referred to as Fly Parasites or Fly Parasitoids.

Fly Eliminators will only parasitize fly pupae and will not bother horses, cattle, livestock, pets, plants, or you.

HOW DO FLY ELIMINATORS WORK?

Adult female flies lay their eggs in decaying organic matter, especially manure. Only a few hours later, these eggs develop into microscopic larvae (maggot stage) and burrow down into the manure. The maggots grow until they form a pupa (cocoon stage).

Then, the female Fly Eliminators seek out the fly pupae and begin to deposit their eggs inside. The eggs grow into larvae that feed on the developing fly, stopping the adult pest fly from hatching.

Fly Eliminators reproduce in about 21 days, constantly strengthening the Fly Eliminator population. Pest flies reproduce at a faster rate than our Fly Eliminators, so we recommend they be replenished on a regular basis, approximately every 2-4 weeks.

WHO USES FLY ELIMINATORS?

Our customers are all types of horse owners, from the single horse owner to large breeder, including racetracks and farms with many types of animals.

- Boarding Facilities
- Feed Lots
- Equestrian Hobbyists
- Dairy Facilities
- Race Tracks
- Urban Farmers
- Stables
- Poultry
- Zoos
- Aquariums
- Kennels
- Plus more

Please be sure to account for all of your livestock and other animals. Call for special reduced pricing for large facilities, mixed livestock areas and/or custom programs.

HOW DO I USE FLY ELIMINATORS?

Your Fly Eliminators will arrive in a clear plastic bag which contains parasitized fly pupae in wood shavings.

1. When your Fly Eliminators arrive, check for any signs of hatching.
2. Store in a warm, dry place. Once the Fly Eliminators begin to hatch simply disperse them near breeding sites; manure piles; under water troughs; under bedding; corners of pens and feeding sites.
3. Cover with dirt or manure to protect your Fly Eliminators. They will then start to burrow down and search for fly pupae to lay their eggs in.
4. Repeat every 2-4 weeks.

Philadelphia Park Recommends ARBICO’s Fly Eliminators

“I was introduced to Fly Eliminators 30 years ago at a Racetrack Symposium and have been using them ever since. They’ve done a fabulous job and I have recommended Fly Eliminators to many people! They’re a great product! Their Fly Eliminators Program was green before green was popular. Without a doubt, this is the way to go. ARBICO Organics is a very good company!”

– Roy Smith, Former Track Manager of Philadelphia Park
Use Your Fly Eliminators the RIGHT Way:

RIGHT Time
- Start your Fly Eliminators Program before or as soon as your infestation starts
- Release once you have 3 nights in a row of 40°F temperatures
- If you start late, just add more Fly Eliminators to your order

RIGHT Place
- Release at the end of the day – they’re nocturnal
- Release near manure, urine soaked areas, feeding, watering & bedding areas

RIGHT Amount
- The more Fly Eliminators, the fewer the flies

RIGHT Schedule
- Shipments every 2-4 weeks are best to break the fly lifecycle

Churchill Downs Chooses ARBICO Organics
“We started using Fly Eliminators back in 1983. We are still using them today. It’s a wonderful product and a successful program that everyone should use! All the big corporations are going green and we were one of the first to go green by using Fly Eliminators.”
– Butch Lehr, Former Track Manager of Churchill Downs

Del Mar Thoroughbred Club Relies On ARBICO Organics
“The Del Mar Thoroughbred Club horse racing facility has been using Fly Eliminators from ARBICO since 1985 with great success. Each summer nearly 2,000 horses and hundreds of thousands of race goers converge on this community making fly control a top priority for both the Del Mar Thoroughbred Club and the community that relies so heavily on the agricultural product we promote. We appreciate the years of timely and professional service ARBICO Organics has provided and look forward to many more good years ahead.”
– Joe Harper, Chief Executive Officer of Del Mar

SPECIAL PRICING

HOW TO ORDER:
Call 1-800-827-2847 or visit www.arbico-organics.com

Only $21.95*
Per Shipment for 2-5 Horses
USPS Shipping Included in Prices!

<table>
<thead>
<tr>
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<th>Suggested Units†</th>
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<td>51 +</td>
<td>Please Call 1-800-827-2847</td>
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</tbody>
</table>

Please be sure to account for all of your livestock and other animals. Call for special reduced pricing for large facilities, mixed livestock areas and/or custom programs.

†These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown. © 2019 Arizona Biological Control, Inc.
**Equiderma Horse Spray**

This Powerful Spray Has A Light Citrusy Scent.

**TARGET:** All flies, mosquitoes and gnats. Will also inhibit ticks.

**DESCRIPTION:** This unique combination of botanical oils, neem and aloe will repel biting and blood-sucking insects, control future insect populations and protect your animal’s skin from fungal and bacterial skin diseases. The oils are a powerful repellent; the neem oil has antibacterial, antiviral, anti-inflammatory and antifungal properties and also disrupts the insect life cycles, while the aloe helps protect the skin and keep the coat nice and shiny. DEET, Pyrethrin and Permethrin free and can be used on horses, ponies, foals, dogs, pigs, cows, llamas, alpacas and chickens.

**SUGGESTED USE:** For external use only. Dial spray down to its lightest spray; this spray is powerful. Apply sparingly with first application to test your horse’s sensitivity to the essential oils contained. Heavy coverage may result in hives. However, this result is rare. If hives appear, cold hose the area thoroughly and re-apply using a lighter spray. If reaction continues, discontinue use.

**ACTIVE INGREDIENTS:** Citronella, eucalyptus, and cedarwood in a combination of aloe and mineral oil that conditions the coat.

**1107500** Equiderma Horse Spray - 32 oz. $23.99

**1107501** Equiderma Horse Spray - 1 Gallon $84.99

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**Espree® Aloe Herbal Horse Spray**

Contains A Natural Sunscreen!

**TARGET:** Repel and kill flies and other insect pests.

**DESCRIPTION:** This all-purpose fly repellent combined with natural coat conditioners and sunscreens is incredibly effective. This all natural, non-irritating spray will aid in the control of flies, mosquitoes, gnats and other insect pests.

**SUGGESTED USE:** Concentrated formula available in quart and gallon sizes. Dilutes 5 to 1 with water or 3 to 1 for tougher cases.

**ACTIVE INGREDIENTS:** Citronella, eucalyptus, and cedarwood in a combination of aloe and mineral oil that conditions the coat.

**1108901** Espree Aloe Herbal Horse Spray - 1 Quart Conc. $25.99

**1108902** Espree Aloe Herbal Horse Spray - 1 Gallon Conc. $68.99

**1108903** Espree Aloe Herbal Horse Spray - 5 oz. RTU $5.65

**1108904** Espree Aloe Herbal Horse Spray - 1 Quart RTU $14.95

**1108905** Espree Aloe Herbal Horse Spray - 1 Gallon RTU $39.95

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**Espree® Aloe Herbal Horse Face & Body Wipes**

Perfect For On-The-Trail Touch-Ups.

**TARGET:** Flies, gnats and other flying, biting insects.

**DESCRIPTION:** Does your horse hate the feel or smell of fly sprays around the face? Do you worry about getting sprays and creams in the eyes? These repellent wipes are the perfect solution and a great tool for quick and easy fly protection for your horse. Keep some in your grooming kit and use before heading out or stick it in your saddlebags for as-needed applications. This blend of botanical oils (Citronella, Cedarwood and Peppermint) is gentle on the skin yet super-effective. One swipe = hours of protection.

**SUGGESTED USE:** With clean hands, pull wipe from dispenser. Close lid tightly. Use as needed to fully cover desired area. Keep away from eyes while applying to facial area. Dispose of used wipes in trash. For external use on animals only; do not allow ingestion. Wash hands after use. Do not flush or use on irritated/inflamed or open lesion skin areas.

**1108906** Espree Aloe Herbal Horse Face & Body Wipes $10.99

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**Revenge® Fly Beater® Natural Fly Repellent**

**TARGET:** Protect Your Animals From Biting Insects With This Fast Acting & Fragrant Spray.

**DESCRIPTION:** This ready-to-use repellent spray contains Cedarwood, Citronella, and Clove oils to repel and control biting pests on horses, sheep, goats, rurites (ostriches, rheas, emus, cassowaries and kiwis), alpacas, chickens, caged animals and more. This water-based spray has a light and pleasantly aromatic scent; but don’t be fooled by that: it hits insects hard. Not for aquatic or food use. Do not apply directly to water.

**SUGGESTED USE:** Can be applied directly to animals or used as a premise spray indoors or outdoors. Turn nozzle to ON position and hold spray container 10-12” from animal’s coat or surface area. Do not saturate animal. Repeat as needed. Do not apply on animals under 12 weeks.

**1202785** Fly Beater Natural Fly Repellent RTU - 32 oz. $9.49
ADULT FLY TRAPS & REPELLENTS

Biting Fly Trap
No Poisons! No Baits! No Electricity!
TARGET: Biting, stable, black and bottle flies.
DESCRIPTION: Biting flies are attracted to sunlight as it shines through a particular type of fiberglass. This trap consists of a cylinder of this type of fiberglass and coated with a clear sticky substance. They will be drawn in by the glass but unable to escape the stickiness. One trap can catch up to 5,000 flies.
SUGGESTED USE: Place anywhere biting flies are a problem. Simply drive included wooden stake into the ground and place the fiberglass cylinder on the stake.

1256020 Biting Fly Trap - Pack of 1 $18.99
1256021 Biting Fly Trap - Pack of 3 $48.95
1256022 Biting Fly Trap - Pack of 5 $75.50
1256023 Replacement Sleeves White - Pack of 1 $3.95
1256024 Replacement Sleeves White - Pack of 3 $8.25
1256025 Replacement Sleeves White - Pack of 5 $12.50
1256026 Replacement Sleeves White - Pack of 10 $22.50

Bite Free™ Stable Fly Trap
Rid Yourself Of Stable Flies & Help Your Horse To Stop The Stomping.
TARGET: Stable flies.
DESCRIPTION: Stable flies are relentless in their search for their next meal, inflicting painful bites on ears, legs and flanks. This persistent leg-biting will cause an animal to stomp, shake and twitch to try to escape the misery. This durable trap is specifically designed to target stable flies (not effective on other flies); the shimmer of the translucent surface draws them in and they get stuck on the no-melt adhesive. Contains no insecticide or attractant. Adhesive won’t dry out or melt. Can trap up to 8,000 flies.
SUGGESTED USE: Set trap up to 4 feet off the ground. Place trap in direct sunlight, preferably at least 10 feet away from structures. Hang trap by top handle or mount on stake or pole (mounting device not included). In large open areas, space traps every 50-100 feet.

1256050 Bite Free Stable Fly Trap $13.75

Captivator® Fly Trap
A Budget Friendly Fly Trap That’s A Real Workhorse.
TARGET: Filth-breeding flies.
DESCRIPTION: This lightweight, yet heavy-duty, 1/2 -gallon (2 qt.) sized trap can stand up to the elements and keep working for months of fly control. Take care to choose a location that is away from where you and your animals want to be as this trap is very smelly and will quickly attract lots of flies. Comes with one 30 gm. water-soluble attractant pouch.
SUGGESTED USE: It only takes 3 easy steps to get things going with this trap: dump attractant in, add water and place outside. Rinse and rebait when it dries out, becomes full of flies, or after 30 days – whichever comes first.

1256051 Captivator Fly Trap $10.99

Call 1-800-827-2847 or Order Online www.arbico-organics.com
Mosquito Bits®

Harness The Power Of Bti For A Clean, Quick Kill.

TARGET: Mosquitoes and Fungus Gnats

DESCRIPTION: Mosquito Bits uses the biological larvicide Bacillus thuringiensis var. israelensis (Bti) to quickly kill mosquito larvae in a wide range of habitats. When spread uniformly over the surface of water, the Bti will float down into the water where the larvae will consume it and die; usually within 24 hours. Bits are not harmful to people, animals or plants. Repeat after a 7-10 day interval.

For Fungus Gnat control: Spread the granules over the soil until the area is covered. Moisture in the soil will dissolve the Bits. Re-apply every 3 weeks.

SUGGESTED USE: Sprinkle 1 teaspoon per 25 sq. ft. or 1 tablespoon per 75 sq. ft. (½ lb. per 2178 sq. ft.) over the surface of containerized standing water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, rain barrels and more. DO NOT APPLY to finished human drinking water sources.

1211108 Mosquito Bits - 8 oz. $10.95
1211136 Mosquito Bits - 30 oz. $17.80
1211130 Mosquito Bits - 20 lbs. in 5 Gallon Bucket $119.00
1211139 Mosquito Bits & Dunks Combo Kit $18.99

Mosquito Dunks®

Simply Place In Standing Water To Kill Mosquitoes Where They Grow.

TARGET: Mosquitoes

DESCRIPTION: When placed in standing water, Mosquito Dunks will float on the water and they will slowly release the bacteria Bacillus thuringiensis var. israelensis (Bti) as they melt. This bacterium is a potent mosquito larvicide and as it disperses into the water it is eaten by, and kills, the mosquito larvae growing there. Dunks can be anchored with a string to keep them from washing away. They can also alternate between being wet and dry without losing effectiveness. Bti targets specific pests and is not harmful to people, animals or plants. Each dunk is effective for 30 days.

SUGGESTED USE: Use 1 dunk for 100 sq. ft. of water. Use in any containerized standing water found near the home, except finished, treated drinking water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, sump pumps and more.

1211101 Mosquito Dunks - 6 Pack $13.95
1211103 Mosquito Dunks - 20 Pack $22.95
1211139 Mosquito Bits & Dunks Combo Kit $18.99

AQUABAC® 200G Granular Bti Mosquito Control

Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

DESCRIPTION: AQUABAC 200G contains Bacillus thuringiensis var. israelensis (Bti), a bacteria that specifically targets mosquitoes and black flies in their larval stage, but is harmless to other living things. Once ingested, Bti will work quickly to damage cells and paralyze the larva. In addition, since AQUABAC 200G does not affect larva predators, they will continue their work alongside the Bti.

SUGGESTED USE: Can be applied to almost any habitat that supports mosquito or black fly larvae. Do not use directly in water sources for human consumption. Broadcast by hand or hand spreader in small areas or by standard ground or aerial dispersing methods for larger areas. If water is clear, broadcast at 2.4-10 lbs. per acre. If water is brackish, murky, polluted or full of algae, broadcast 10-12 lbs. per acre. Lasts for approximately 2 weeks.

1211150 AQUABAC Granular Bti - 40 lb. - Free Shipping* $187.00
*Free Shipping on 40 lb. bag only, in the contiguous 48 states. Ships via Ground ONLY. Call for pallet pricing.

AQUABAC® Xt

Use This Powerful Biocontrol Liquid To Kill Mosquito Larvae In Water.

TARGET: Larval stages of mosquitoes, fungus gnats, aquatic midges and nuisance flies.

DESCRIPTION: This Bacillus thuringiensis var. israelensis (Bti) offers the same powerful pest control in a convenient liquid form. Bti is a bacterial that expressly targets mosquitoes, fungus gnats, aquatic midges and nuisance flies in their larval stages. Once ingested, it will work rapidly to damage cells and finally paralyze the larva. AQUABAC Xt will not harm any other form of aquatic life or beneficial insects.

SUGGESTED USE: This product can be applied via conventional aerial and ground application equipment (or metered release system) in nearly any habitat that supports the targeted pest larvae. For mosquitoes, use between .25-2.0 pts./100 gals. Higher rates apply when water is polluted, adult populations are high or there is a lot of algae. Do not apply this product in any type of irrigation system or in any sources of water that are for direct human consumption. More specific application rates can be found on the package label.

1211160 AQUABAC Xt - 2.5 Gallons* $190.00
1211161 AQUABAC Xt - 2.5 Gallons/Case of 2* $340.00
*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.

This product cannot be shipped to the following state: NY
Natular® DT

These Easy-to-Use Fizzy Tablets Kill Mosquito Larvae For 60 days!

TARGET: Use to kill the larvae of container breeding mosquitoes, e.g., Aedes aegypti and Aedes albopictus.

DESCRIPTION: Use this Spinosad-based product to kill mosquito larvae in standing water. These small bi-layer tablets use a dual-release action to ensure a quick kill and continuous control. The first layer is effervescent and will bubble up, dissolve and spread within 60 seconds and begin killing larvae within 24 hours. The second layer dissolves more slowly over the next 60 days. Can be applied as a preventative action (pre-flood treatment) before sites fill with water.

SUGGESTED USE: Use 1 tablet to treat up to 50 gallons (192 liters) or 25 sq. ft. For continuous action, keep tablet immersed in water. Can be allowed to dry and rewet for use in sites that intermittently fill with water. Reapply after sq. ft. For continuous action, keep tablet immersed in water. Can be allowed to

Poses no threat to honeybees and other beneficials. Tablets may be cut in half for use in smaller areas.

SUGGESTED USE: Use 1 tablet to treat up to 50 gallons (192 liters) or 25 sq. ft. For continuous action, keep tablet immersed in water. Can be allowed to dry and rewet for use in sites that intermittently fill with water. Reapply after 60 days. Can be applied as a preventative action (pre-flood treatment) before sites fill with water.

1211250 Natular DT - 60 day tablet - 12 ct. Package $11.75

Natular® G30 WSP

An Exceptional Larvicide In Convenient Water Soluble Pouches.

TARGET: Most common vector and nuisance mosquitoes, including Aedes, Anopheles and Culic.

DESCRIPTION: Using Spinosad as an active ingredient, Natular G30 WSP is an extremely effective and easy-to-use mosquito larvicide. Spinosad is a potent nerve agent that provides exceptional control from the 1st-4th instar stages of larval life. It is highly selective to insects, so there is very low toxicity to mammals, other non-target organisms, honeybees and beneficials. This eco-friendly formulation breaks down quickly in the soil and degrades rapidly in sunlight. Each pouch contains 10 grams of product and will dissolve quickly in water. These lightweight pouches come in a convenient re-sealable bag, so you can easily reach in and get just what you need.

SUGGESTED USE: Apply 1 or 2 pouches per listed site per 100 sq. ft. (up to 2 feet in depth), or 1 pouch per 750-1500 gallons. Use entire contents of water soluble pouch, do not break open or use partial contents of a pouch. Reapply after 30 days. More frequent applications may be made when conditions warrant. For applications in storm or water drainage areas, sewers and catch basins, place 1 or 2 pouches into each catch basin. For applications to small contained site (less than 100 sq. ft), use 1 single pouch per site.

1211255 Natular G30 WSP - Single - 10 g Pouches/50 ct. $69.75

This product cannot be shipped to the following states: AK, CT, IA, MD, ME, MI, NC, NH, RI, SD, VT, WI

Mosquito Barrier®

For Yards, Parks & Grass Areas — Keeps Mosquitoes Away!

TARGET: Mosquitoes, gnats and fleas.

DESCRIPTION: Liquid garlic repellent dissipates within minutes of application. Kills adults on contact and suffocates larvae in standing water within approximately 24 hours. Saturate all plants including grass, vegetables and trees. Applications last up to 4 weeks.


1211001 Mosquito Barrier - 1 Quart $24.50
1211002 Mosquito Barrier - 1 Gallon $79.90

This product cannot be shipped to the following states: ID, KS, WY

Mosquito Magician

An Essential Oil-Based Product That Offers 3-in-1 Mosquito Control.

TARGET: Aedes Aegypti mosquitoes, gnats, no-see-ums and other biting, flying insects.

DESCRIPTION: Using Spinosad as an active ingredient, Natular G30 WSP is an extremely effective and easy-to-use mosquito larvicide. Spinosad is a potent nerve agent that provides exceptional control from the 1st-4th instar stages of larval life. It is highly selective to insects, so there is very low toxicity to mammals, other non-target organisms, honeybees and beneficials. This eco-friendly formulation breaks down quickly in the soil and degrades rapidly in sunlight. Each pouch contains 10 grams of product and will dissolve quickly in water. These lightweight pouches come in a convenient re-sealable bag, so you can easily reach in and get just what you need.

SUGGESTED USE: Apply 1 or 2 pouches per listed site per 100 sq. ft. (up to 2 feet in depth), or 1 pouch per 750-1500 gallons. Use entire contents of water soluble pouch, do not break open or use partial contents of a pouch. Reapply after 30 days. More frequent applications may be made when conditions warrant. For applications in storm or water drainage areas, sewers and catch basins, place 1 or 2 pouches into each catch basin. For applications to small contained site (less than 100 sq. ft), use 1 single pouch per site.

1211140 Mosquito Magician - 16 oz. Concentrate $22.99
1211142 Mosquito Magician - 1 Gallon Concentrate $99.99
1211145 Mosquito Magician - 1 Gallon RTU $24.99
1211144 Large-sized Battery Sprayer w/1 Quart Concentrate $89.99

Call 1-800-827-2847 or Order Online www.arbico-organics.com
Aunt Fannie’s Mosquito Spray

Tough On Mosquitoes But Gentle Enough To Use On Your Kids.

TARGET: For use as a topical mosquito repellent on children (6 months of age or older) and adults.

DESCRIPTION: The 5 essential oils in this spray (soybean, cedarwood, peppermint, lemongrass & geranium) will gently coat you in a light, wonderfully fragrant mist that will keep working up to 4 hours. Although the oils are non-irritating to most skin, there is a small chance of an allergic reaction for some people. When applying to children, do not apply to hands. This bottle has a head that will dispense a fine mist for a nice, long spray at any angle (even upside down). DEET-free and contain no dyes, phenols, formaldehyde, neonicotinoids or pyrethrins.

SUGGESTED USE: Spray evenly over exposed skin every 4 hours. Use adult supervision when applying to children. Avoid contact with eyes and mouth.

1280681 Aunt Fannie’s Mosquito Spray - 150 ml $10.99

Aunt Fannie’s Mosquito Wipes

A Deet-Free Mosquito Repellent Wipe That Is Perfect For On-The-Go!

TARGET: Repels mosquitoes, gnats, black flies and other biting insects.

DESCRIPTION: These insect repellent wipes have a delightful scent, which comes from the fragrant botanical oils they’re made of: citronella, peppermint, cedar, lemongrass and geranium. Each towelette comes in an individually wrapped packet that is easy to slip into a purse, pocket, diaper bag or backpack. These wipes are 100% biodegradable, made from unbleached material, non-irritating, non-staining and DEET-free. They contain no dyes, phenols, formaldehyde, neonicotinoids or pyrethrins.

SUGGESTED USE: Apply evenly to exposed skin every 2-3 hours. Product can be applied to clothing. Use adult supervision when applying to children and do not use on children under 6 months old.

1280670 Mosquito Wipes - 10 Towelettes $9.99
1860675 Mosquito Wipes - Case of 12/10-Packs $95.00

Chig-R-Blok

Take Back Your Yard — Make The Outdoors Fun Again!

TARGET: Chiggers, ticks, mosquitoes and other flying insects.

DESCRIPTION: Finally, a natural and effective solution to all those itchy, nasty, biting pests. Made from a blend of botanical oils, herbs and essential oils, Chig-R-Blok creates a barrier to repel insects and also treats existing bites and rashes. Chig-R-Blok keeps chiggers, ticks, mosquitoes and other flying insects at bay and will stop the itching associated with poison ivy, poison oak and poison sumac; allowing your skin to heal faster. Available in two formulas: Chig-R-Blok Oil and Chig-R-Blok Balm.

• DEET free formula is made with cherry kernel, shea, almond, apricot, neem, karanja, hemp and pumpkin seed oils. It also contains geranium, carrot, patchouli, rosemary, frankincence, lemongrass, lavender, mint and myrrh essential oils.
• Water-resistant and can last 4-8 hours (depending on perspiration).
• Can be used for humans, dogs and horses. Not for cats.

SUGGESTED USE: As a Repellent: Avoiding the face area, apply to forearms, from the kneecap down to tops of feet, the waist area and the back of the neck. Don’t forget those tender areas that mosquitoes find irresistible. As a Treatment: Apply Chig-R-Blok as needed to bites: allow at least 90 seconds for itching to subside. To aid in healing insect bites, apply twice daily.


1212005 Chig-R-Blok - 2 oz. Oil $10.49
1212004 Chig-R-Blok - 4 oz. Oil $14.99

Mosquitoes Transmit Serious Disease

Humans: Zika Virus, West Nile Virus, Malaria, St. Louis Encephalitis, La Crosse Encephalitis

Dogs and Cats: Dog Heartworm

Horses: Eastern Equine Encephalitis Virus, Western Equine Virus, West Nile Virus, St. Louis Encephalitis

Livestock: Encephalomyelitis, Anaplasmosis, Swamp Fever, Fowlpox
PERSONAL REPELLENTS

BiteBlocker® Insect Repellents
DEET Free Protection From Biting Pests.
TARGET: Mosquitoes, black flies, gnats and no-see-ums (biting midges).
DESCRIPTION: This extremely effective, DEET-free insect repellent is both sweat and waterproof and safe to use on every member of your family. Made with active ingredients of Soybean and Geranium oils and mild inert ingredients, these long-lasting repellents are gentle on the skin.
SUGGESTED USE: BiteBlocker Insect Repellent and BiteBlocker Family Safe Pen repel up to 3 hours (apply every 2 hours for maximum protection); BiteBlocker Xtreme repels up to 8 hours. For added protection, add to clothing.

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<thead>
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<th>Code</th>
<th>Description</th>
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<td>1211820</td>
<td>BiteBlocker Family Safe Pen - Single - .5 oz.</td>
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<td>1211821</td>
<td>BiteBlocker Family Safe Pen - 2 pack - .5 oz. each</td>
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<tr>
<td>1211815</td>
<td>BiteBlocker Herbal Insect Repellent Spray - 4.7 oz.</td>
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<td>1211819</td>
<td>BiteBlocker Xtreme Insect Repellent - 6 oz.</td>
<td>$8.98</td>
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Bug Protector Spray Repellent - Mosquitoes
Don’t Let Mosquitoes Ruin Your Outdoor Life!
TARGET: Mosquitoes, gnats and other insects.
DESCRIPTION: Mosquitoes can make any outing miserable and carry many serious diseases. This Deet-free spray repellent uses lemongrass, geranium, peppermint and cinnamon essential oils to provide full protection without the nasty smell, stickiness and harmful ingredients of toxic bug sprays. Mosquito-borne diseases are not limited to people; there are a number of potentially fatal diseases that affect animals and Bug Protector works just as well for animals it does for people. It has been formulated so that you can apply the spray directly to your pet’s fur for thorough protection. In addition to the Spray Repellent, we offer Bug Protector Spray Pen Repellent and the Bug Protector Balm Stick Repellent. These are ideal for taking your bug protection with you wherever you go.
SUGGESTED USE: Thoroughly spray product on exposed skin or pet’s fur and allow to dry without wiping. Reapply as needed.

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<th>Description</th>
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<td>1212020</td>
<td>Bug Protector Spray - Mosquitoes - 2 oz.</td>
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<td>Bug Protector Spray - Mosquitoes - 4 oz.</td>
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<td>1212022</td>
<td>Bug Protector Spray - Mosquitoes - 8 oz.</td>
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<td>1212028</td>
<td>Bug Protector Balm Stick - Mosquitoes - 2 Pack</td>
<td>$5.99</td>
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Bug Bam! Mosquito Band®, Camp Grids & Pet Tags
Keep Mosquitoes, Fleas & Ticks Off Your Family & Pets The Natural Way!
TARGET: Mosquitoes, fleas and ticks.
DESCRIPTION: Adjustable bands are one-size fits all and measure about 9.8” long x .47” wide. Waterproof, sweat-proof and work by masking human odors. Grids cover up to 300 sq. ft. Plastic is impregnated with essential oils of citronella, lemongrass and geranium.
SUGGESTED USE: Hang grids indoors or outdoors. Bands and grids last up to 100 hours; each pet tag lasts up to 15 hours.

<table>
<thead>
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<th>Code</th>
<th>Description</th>
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<tr>
<td>1211700</td>
<td>Bug Bam! Mosquito Band - 2 Pack</td>
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<td>1211703</td>
<td>Bug Bam! Mosquito Band - 2 Pack - Bundle of 10</td>
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<td>1211702</td>
<td>Bug Bam! Mosquito Band - 2 Pack - Case of 24</td>
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<td>1211809</td>
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<td>1211811</td>
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<td>1211816</td>
<td>Bug Bam! Mosquito Pet Tags - 2 Pack - Bundle of 5</td>
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<td>1211817</td>
<td>Bug Bam! Mosquito Pet Tags - 2 pack - Bundle of 10</td>
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Bug Bam! Mosquito Roll-On™
Protect Yourself From Blood-Sucking Pests With This Eco-Friendly, Lemony-Fresh Roll-On!
TARGET: Repels mosquitoes, fleas, ticks, gnats and other flying, biting insects
DESCRIPTION: Ditch the nasty, chemical-smelling insect repellents and use this lemony repellent to roll on DEET-free protection from annoying and dangerous biting, flying insects. This convenient roll-on allows you to control where and how much you apply, for targeted personal control. Made with an organic, non-GMO soy bean oil base and fragrant botanical oils, (including citronella, geranium, lemongrass and peppermint oils) this scientifically tested and proven formula is a great choice for any outdoor activity. Each application provides up to 3 hours protection.
SUGGESTED USE: Shake bottle for 3-4 seconds before opening and then remove cap. Place roller on exposed skin and apply liberally to any exposed areas. Replace cap when not in use. Reapply every 3 hours as needed.

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<th>Code</th>
<th>Description</th>
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<td>1211720</td>
<td>Bug Bam! Mosquito Roll-On, 3 oz.</td>
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<tr>
<td>1211721</td>
<td>Bug Bam! Mosquito Roll-On, Bundle of 3</td>
<td>$24.00</td>
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SOIL AMENDMENTS

ARBICO Organics™ Earthworm Castings
Will Help Suppress Disease, Improve Soil Structure & Will Not Burn Your Plants!

TARGET: Soils lacking nutrients and microorganisms.

DESCRIPTION: Earthworm castings add nutrients to plants, including nitrogen, phosphorus, potassium, and high quantities of humic acids. They are perfect for: time-release fertilization, improving plant health, suppressing diseases, and improving soil structure.

SUGGESTED USE:
- Seedlings: 5-10% by volume in potting mix.
- Vegetables & Annuals: Side dress with 1/2 cup per plant every 2-4 weeks during growing season.
- Transplants: 1 in. before placing plant.
- Trees & Shrubs: 1 in. around base of plants every month during growing season.
- Compost Tea: Add 1 cup per gallon of water. Mix with 1 tsp. of molasses and aerate for 24-48 hours.

<table>
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<tr>
<th>Product Code</th>
<th>Product Details</th>
<th>Price</th>
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<tbody>
<tr>
<td>1308200</td>
<td>Earthworm Castings - 1 lb. Bag</td>
<td>$4.95</td>
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<tr>
<td>1308201</td>
<td>Earthworm Castings - 5 lb. Bag</td>
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<td>1308202</td>
<td>Earthworm Castings - 10 lb. Bag</td>
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<td>1308203</td>
<td>Earthworm Castings - 25 lb. Bag</td>
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*Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

ARBICO Organics™ Compost Tea Bag
The Healthy Elixir For Your Plants!

TARGET: Plants that are stressed and need an extra boost!

DESCRIPTION: Concentrated microbes to boost overall plant health and vigor.

SUGGESTED USE: Mix with up to 5 gallons of warm water. Steep for 8-48 hours. Agitate frequently. Use immediately (to preserve life of microorganisms) as a foliar spray or soil drench.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Details</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305402</td>
<td>Compost Tea Bag - Small</td>
<td>$9.00</td>
</tr>
</tbody>
</table>

ARBICO Organics™ Compost Plus
Our Premium Formula – Made Exclusively At ARBICO Organics!

TARGET: Soils lacking beneficial bacteria resulting in plants with low brix levels.

DESCRIPTION: This compost is super-charged with billions of beneficial bacteria that will increase your plants’ health making them grow faster, produce more and resist diseases and insect pests. It contains a specially formulated blend of fermented nitrogen and carbon materials that revitalizes soil, speeds up decomposition of organic matter and raises brix (sugar level – vitality) levels. Our compost has chitinase which has nematicidal properties.

SUGGESTED USE: Use 3-10 Tbsp./potted plant, mix. Use 1 lb./12 sq. ft. Use a 2 cubic ft. bag to treat 50 sq. ft. and use 2-4 tons/acre for farms.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Details</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305601</td>
<td>Compost Plus - 1 lb. Bag</td>
<td>$8.90</td>
</tr>
<tr>
<td>1305602</td>
<td>Compost Plus - 5 lb. Bag</td>
<td>$11.50</td>
</tr>
<tr>
<td>1305610</td>
<td>Compost Plus - 1 Cubic ft. Bag</td>
<td>$17.00</td>
</tr>
<tr>
<td>1305603</td>
<td>Compost Plus - (2) 1 Cubic ft. Bags</td>
<td>$28.00</td>
</tr>
<tr>
<td>1305607*</td>
<td>Compost Plus - 1/2 Ton Pickup Truck Load</td>
<td>CALL</td>
</tr>
</tbody>
</table>

*Call to arrange pickup. Pickup in Catalina, AZ.

ARBICO Organics™ Earthworms - Eisenia fetida
Use In Your Garden & With The Worm Factory® - Fun For The Whole Family!

TARGET: Vermicomposting bins and soils.

DESCRIPTION: Earthworms (red wigglers) consume organic matter and convert it into enriching castings full of micro-organisms, nutrients and humic acids that improve, aerate, and condition soil. Castings work like highly nitrous fertilizers that contain about 5X the available nitrogen, 7X the available phosphorus, 3X the exchangeable magnesium, 11X the available potash, and 1.5X the calcium found in 6 inches of soil. For indoor and outdoor use; red wigglers are perfect for worm bins.

SUGGESTED USE: 1,000 per Worm Factory tray or 10 qt. worm bin. ≈2-3 worms/sq. ft., 1,000 worms/400 sq. ft.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Details</th>
<th>Price</th>
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<tbody>
<tr>
<td>1308003</td>
<td>ARBICO Organics Earthworms (≈1,000)</td>
<td>$34.00</td>
</tr>
<tr>
<td>1308020</td>
<td>ARBICO Organics Earthworms (≈2,000)</td>
<td>$49.50</td>
</tr>
<tr>
<td>1308050</td>
<td>ARBICO Organics Earthworms (≈5,000)</td>
<td>$99.00</td>
</tr>
</tbody>
</table>

| Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW |
**EM•1® Microbial Inoculant**

**Faster Breakdown Of Organic Matter.**

**TARGET:** Accelerate decomposition & reduce odors.

**DESCRIPTION:** Consists of healthy bacillus from naturally fermented live microorganisms. Works with beneficial microbes in the area it is applied to, creating a synergy among microorganisms and larger forms of life including insects, worms, pets, livestock and people.

**SUGGESTED USE:** 2 tsp./gal. water, 1 qt./250 gal. water, 1 qt./acre up to 8 times/yr.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1202098</td>
<td>EM•1 Microbial Inoculant - 16 oz.</td>
<td>$26.00</td>
</tr>
<tr>
<td>1202101</td>
<td>EM•1 Microbial Inoculant - 1 Quart</td>
<td>$35.00</td>
</tr>
<tr>
<td>1202102</td>
<td>EM•1 Microbial Inoculant - 1 Gallon</td>
<td>$75.00</td>
</tr>
<tr>
<td>1202103</td>
<td>EM•1 Microbial Inoculant - 5 Gallons</td>
<td>$290.00</td>
</tr>
</tbody>
</table>

Call for larger sizes.

*Call for freight quote.

**Inocucor™ Garden Solution**

**Stimulate Root Growth & Boost Yields With This Special Blend of Beneficial Microbes & Enzymes.**

**TARGET:** High value crops in farms, fields, greenhouses, hydroponic and aquaponics systems.

**DESCRIPTION:** This OMRI listed biological soil inoculant serves as a catalyst to stimulate root growth and microbial activity to boost harvest yield and quality. Proven effective, this blend is designed to benefit a wide-selection of high-value crops. It reduces the effects of abiotic stress factors like transplanting, drought and soil salt content. In addition to the beneficial microbes, Inocucor Garden Solution contains an optimal blend of enzymes to stimulate microbial colonization in the soil. This ensures development of a healthy and bioactive root zone and boosts overall plant vigor.

**SUGGESTED USE:** Dilute 100x in water (or 3 tsp. per gal.). Apply throughout growing season or every 30 days. For stressed plants, add 6 tbsp. per gal. and apply weekly.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1202150</td>
<td>Inocucor Garden Solution – 1 Liter</td>
<td>$25.25</td>
</tr>
<tr>
<td>1202151</td>
<td>Inocucor Garden Solution – 1 Gallon</td>
<td>$63.00</td>
</tr>
<tr>
<td>1202153</td>
<td>Inocucor Garden Solution – Case of 2, 2.5 Gallons</td>
<td>$175.00</td>
</tr>
<tr>
<td>1202155</td>
<td>Inocucor Garden Solution – 55 Gallon Drum*</td>
<td>CALL</td>
</tr>
</tbody>
</table>

*Call for freight quote.

**Suståne® Compost Tea Bags, 4-6-4**

**A High Nutrient Plant Food In Easy To Brew Compost Tea Bag.**

**TARGET:** For use as a plant food/soil amendment for all vegetables, flowers, trees and shrubs.

**DESCRIPTION:** These tea bags are filled with a high quality compost (derived from aerobically composted turkey litter, hydrolyzed feather meal and sulfate of potash) that is weed and pathogen free and made without bone or blood products. Each 21-gram bag requires no additional measuring or equipment to use and provides a controlled dose of nutrients for either foliar (compost tea) or soil (root feeder) application. Your plants will thrive abundantly with the micro-organisms, high nitrogen content and increased root growth these bags provide.

**SUGGESTED USE:** Steep tea bags in water for compost tea to be used either as a foliar spray or a soil drench or place in soil medium as a root feeder. For tea, use 1 tea bag per gallon of water. For root feeding, place in hole or pot before introducing plant and use 1 bag per gallon pot or every 12” of plant height.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305550</td>
<td>Suståne Compost Tea Bags - 1 Bag (12 ct.)</td>
<td>$9.00</td>
</tr>
<tr>
<td>1305570</td>
<td>Suståne Compost Tea Bags - 1 Bag (50 ct.)</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Case sizes available.

**TerraGrow®**

**Beneficial Microorganisms To Stimulate Root Development, Increase Nutrient Uptake & Reduce Transplant Shock.**

**TARGET:** High value crops and seedlings in farms, fields, greenhouses and hydroponic systems.

**DESCRIPTION:** This soil inoculant uses a specialty formula to reestablish beneficial organisms in and around the root zone to stimulate root development. Healthy root development is the first step to limiting stressors on the plants and increasing yields. TerraGrow is completely water soluble making irrigation applications a breeze. Contains no genetically altered microbial strains. OMRI listed for organic production.

**SUGGESTED USE:** 0.6-1.0 oz. per 100 gallons of water for most soil and hydroponic applications. Use 1-1.5 lbs. per acre prior to or immediately after transplanting. Repeat applications every 3-4 weeks through the growing season.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1222700</td>
<td>TerraGrow - 10 lbs.</td>
<td>$225.00</td>
</tr>
<tr>
<td>1222701</td>
<td>TerraGrow - 25 lbs.</td>
<td>$540.00</td>
</tr>
<tr>
<td>1222702</td>
<td>TerraGrow - Pallet of 50, 10 lbs.</td>
<td>CALL</td>
</tr>
<tr>
<td>1222703</td>
<td>TerraGrow - Pallet of 32, 25 lbs.</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Call 1-800-827-2847 or Order Online www.arbico-organics.com 41
**Great White® Premium Mycorrhizae**

**Promote Strong Root Systems, While Reducing Water & Fertilizer Needs!**

**Target:** Use for seed starts, transplants and plants suffering from stress, low yields and poor health.

**Description:** Great White Premium Mycorrhizae is a concentrated formula that boosts nutrient and water absorption generating root development, plant growth and yield. Water soluble, this product is easy to apply and will quickly begin interacting with plants. It features:

- 15 different species of various endo and ectomycorrhizal
- 14 different species of beneficial bacillus bacteria
- 2 species of trichoderma (commonly found to help fight against fungal diseases, i.e., Sclerotinia sclerotiorum, Botrytis, Fusarium, and Penicillium)
- Plant vitamins

**Suggested Use:** For hydroponic, drenching or injection applications, mix at a ratio of about 1 tsp./2 gal. of water or ≈ 1 part/2 parts water.

**Plant Success Organics Granular™, 3-1-2**

Create A Living Soil With this Team Of Mycorrhizae, Beneficial Bacteria & Fertilizer.

**Target:** New plantings in a variety of soils and climates.

**Description:** Carefully crafted from mycorrhizae, bacteria, trichoderma and an all-purpose fertilizer, this granular formula will build a microbial system on and around plant roots while feeding the beneficial organisms. Root colonization encourages stronger and quicker root growth, increases water and nutrient uptake and creates a healthy soil that can better fight off soil-borne diseases. Apply by simply sprinkling into plant hole, or by mixing with soil, and see fast-growing, heartier plants in no time.

**Target:** Use for seed starts, transplants and plants suffering from stress, low yields and poor health.

**Suggested Use:** For hydroponic, drenching or injection applications, mix at a ratio of about 1 tsp./2 gal. of water or ≈ 1 part/2 parts water.

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**Suggested Use:** For hydroponic, drenching or injection applications, mix at a ratio of about 1 tsp./2 gal. of water or ≈ 1 part/2 parts water.
Maxicrop Soluble Seaweed Powder, 0-0-17

Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

DESCRIPTION: Maxicrop provides more than 70 minerals, growth hormones, cytokinins, auxins, vitamins, and enzymes. Improves overall plant vigor and can prevent diseases such as downy and powdery mildews.

SUGGESTED USE: 1 tsp./gal. water or 2 lbs./acre over the season.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1313001</td>
<td>MaxiCrop Seaweed Powder - 10.7 oz.</td>
<td>$19.99</td>
</tr>
<tr>
<td>1313002</td>
<td>MaxiCrop Seaweed Powder - 27 oz.</td>
<td>$35.00</td>
</tr>
<tr>
<td>1317202</td>
<td>MaxiCrop seaweed Powder - 44 lbs.</td>
<td>$399.00</td>
</tr>
</tbody>
</table>

Maxicrop Kelp Meal 1-0-2

Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macro nutrients.

DESCRIPTION: Maxicrop Kelp Meal Fertilizer (1-0-2) is composed of slow-dried, ground seaweed - cleaned, desalted and dust free. This is a rich organic source of over 70 trace minerals (including calcium, magnesium, sulfur, and chlorine) as well as vitamins, amino acids and plant hormones.

SUGGESTED USE: Incorporate into potting soils, seed and transplant beds. Top or side dress gardens and farms. Excellent for hydroponic growing. 1 cup/100 sq. ft.; 55 lbs. treats ~3,000 sq. ft.; 2,200 lbs. treats ~3 acres.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314801</td>
<td>MaxiCrop Kelp Meal Fertilizer - 5 lbs.</td>
<td>$16.75</td>
</tr>
</tbody>
</table>

Maxicrop Liquid Seaweed 0-0-1

Boost Plant And Lawn Growth With This Concentrated & Nutrient Rich Fertilizer!

TARGET: Poor root development, slow growth, and disease caused from lack of minerals, nutrients and enzymes.

DESCRIPTION: Made from Ascophyllum nodosum seaweed from Norway, Maxicrop contains over 70 different elements, vitamins and minerals that activate enzyme systems and act as stimulants for root and plant growth. This product will also condition soil, increase pest resistance and is a balanced fertilizer. A harvested, renewable resource, this product is a sustainable choice to boost the health of your indoor/outdoor plants, gardens, lawns and crops.

SUGGESTED USE: The 32 oz. concentrate makes approximately 32 gal. See website or label for specific application rates.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1313005</td>
<td>MaxiCrop Liquid Seaweed - 32 oz.</td>
<td>$12.95</td>
</tr>
<tr>
<td>1313006</td>
<td>MaxiCrop Liquid Seaweed - 1 Gallon</td>
<td>$29.95</td>
</tr>
<tr>
<td>1313007</td>
<td>MaxiCrop Liquid Seaweed - 2.5 Gallons</td>
<td>$58.00</td>
</tr>
</tbody>
</table>

Neptune’s Harvest Fish & Seaweed Fertilizer 2-3-1

The Best Of Both Products For A Complete Fertilization Program.

TARGET: All types of plants and crops.

DESCRIPTION: Increase yields and improve shelf life of fruits and vegetables. Flowers and foliage will be stronger and more colorful. Great for hydroponics.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1315012</td>
<td>1 Pint</td>
<td>$11.99</td>
</tr>
<tr>
<td>1315011</td>
<td>1 Quart</td>
<td>$16.99</td>
</tr>
<tr>
<td>1315013</td>
<td>1 Gallon</td>
<td>$39.99</td>
</tr>
<tr>
<td>1315014</td>
<td>5 Gallons</td>
<td>$145.00</td>
</tr>
<tr>
<td>1314950</td>
<td>55 Gallon Drum *</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI

Neptune’s Harvest Fish Fertilizer 2-4-1

Versatile Without Unpleasant Odors!

TARGET: Soils requiring rapid nourishment.

DESCRIPTION: Nitrogen and other nutrients are chelated, so they are readily available. Unlike fish emulsions, Neptune’s Harvest retains the fish proteins and oils and has no unpleasant odor.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1315001</td>
<td>1 Pint</td>
<td>$10.99</td>
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<tr>
<td>1315000</td>
<td>1 Quart</td>
<td>$15.99</td>
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<tr>
<td>1315002</td>
<td>1 Gallon</td>
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<tr>
<td>1315003</td>
<td>5 Gallons</td>
<td>$130.00</td>
</tr>
<tr>
<td>1314930</td>
<td>55 Gallon Drum *</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI

Neptune’s Harvest Seaweed Plant Food 0-0-1

Contains Over 60 Naturally Occurring Nutrients & Amino Acids!

TARGET: Plants and crops exposed to stress.

DESCRIPTION: Enhances plant development, color and vigor. Increases plant hardiness and resistance to adverse conditions, such as early frost, extreme heat and lack of moisture. Can be used as a seed inoculant, increases and accelerates germination, for rapid development of a healthy root system.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1315008</td>
<td>1 Pint</td>
<td>$10.99</td>
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<tr>
<td>1315007</td>
<td>1 Quart</td>
<td>$14.99</td>
</tr>
<tr>
<td>1315009</td>
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<tr>
<td>1315010</td>
<td>5 Gallons</td>
<td>$130.50</td>
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<tr>
<td>1314940</td>
<td>55 Gallon Drum *</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI
Down To Earth™ (DTE™) organic fertilizers are ideal for enhancing soil fertility and stimulating plant growth in a sustainable and environmentally friendly way. Organic fertilizers add nutrients to the soil for uptake by plants and for use by the myriad microorganisms that inhabit healthy, productive soil.

DTE Acid Mix, 4-3-6
One Of The Best Fertilizers That Is Specially Formulated For Acid Loving Plants!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300200</td>
<td>Down To Earth Acid Mix Mini - 1 lb.</td>
<td>$4.49</td>
<td></td>
</tr>
<tr>
<td>1300201</td>
<td>Down To Earth Acid Mix - 6 lbs.</td>
<td>$11.79</td>
<td></td>
</tr>
</tbody>
</table>

Larger sizes available - please go online or call.

DTE Blood Meal, 12-0-0
High In Nitrogen - The Key For Leafy Greens & Healthy Bulbs!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300300</td>
<td>Down To Earth Blood Meal Mini - .5 lb.</td>
<td>$4.49</td>
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<tr>
<td>1300301</td>
<td>Down To Earth Blood Meal - 5 lbs.</td>
<td>$20.99</td>
<td></td>
</tr>
<tr>
<td>1300302</td>
<td>Down To Earth Blood Meal - 20 lbs.</td>
<td>$62.29</td>
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<tr>
<td>1300303</td>
<td>Down To Earth Blood Meal - 50 lbs.</td>
<td>$121.19</td>
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</table>

DTE Bone Meal, 3-15-0
Help Your Plants Have The Best Chance to Establish Healthy Roots & Flowers!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>1300219</td>
<td>Down To Earth Bone Meal - 6 lbs.</td>
<td>$14.39</td>
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</table>

Larger sizes available - please go online or call.

DTE Crab Meal, 4-3-0
A Versatile Fertilizer That Provides Nutrients, Is An Excellent Compost Amendment & Has Nematicidal Properties!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1300225</td>
<td>Down To Earth Crab Meal - 5 lbs.</td>
<td>$15.79</td>
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</table>

Larger sizes available - please go online or call.

DTE Fish Bone Meal, 3-16-0
Marine Based Bone Meal For All Of Your Growing Needs.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300270</td>
<td>Down To Earth Fish Bone Meal Mini - 1 lb.</td>
<td>$4.49</td>
<td></td>
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</tbody>
</table>

DTE Kelp Meal, 1-0.1-2
Down To Earth’s Kelp Meal Revitalizes Your Soil & Rejuvenates Your Plants With The Potassium They Need!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300280</td>
<td>Down To Earth Kelp Meal Mini - .5 lb.</td>
<td>$4.49</td>
<td></td>
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DTE Langbeinite, 0-0-22
Potassium, Magnesium & Sulfur In One Mineral Application.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300263</td>
<td>Down To Earth Langbeinite - 5 lbs.</td>
<td>$13.39</td>
<td></td>
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</tbody>
</table>

DTE Neem Seed Meal, 6-1-2
Another Outstanding Product From The Well-Loved Neem Tree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300267</td>
<td>Down To Earth Neem Seed Meal - 5 lbs.</td>
<td>$17.99</td>
<td></td>
</tr>
<tr>
<td>1300268</td>
<td>Down To Earth Neem Seed Meal - 20 lbs.</td>
<td>$50.89</td>
<td></td>
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</table>

DTE Rock Phosphate, 0-3-0
Dose Your Soil With This Before Planting – Your Plants Will Love You For It.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1300269</td>
<td>Down To Earth Rock Phosphate - 5 lbs.</td>
<td>$11.39</td>
<td></td>
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</table>

DTE Seabird Guano, 0-11-0
Phosphorous Rich Fertilizer & An Herb Grower’s Favorite Choice!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300023</td>
<td>Down To Earth Seabird Guano - 5 lbs.</td>
<td>$16.79</td>
<td></td>
</tr>
<tr>
<td>1300024</td>
<td>Down To Earth Seabird Guano - 20 lbs.</td>
<td>$42.09</td>
<td></td>
</tr>
</tbody>
</table>

Larger sizes available - please go online or call.

See online for shipping restrictions.
DTE All Purpose Mix, 4-6-2
Fertilizer For All Of Your Growing Needs!
1300209 Down To Earth All Purpose Mix Mini - 1 lb. $4.49
1300207 Down To Earth All Purpose Mix - 6 lbs. $11.79
Larger sizes available - please go online or call.

DTE Bat Guano, 9-3-1
High-Nitrogen Fertilizer From Bat Guano.
1300000 Down To Earth Bat Guano Mini - .25 lb. $4.49
1300001 Down To Earth Bat Guano - 2 lbs. $13.39
1300002 Down To Earth Bat Guano - 10 lbs. $37.29

DTE Bio-Live, 5-4-2
A Microbe-Rich Fertilizer To Help Build Living Soil!
1300260 Down To Earth Bio-Live - 5 lbs. $16.59
1300261 Down To Earth Bio-Live - 25 lbs. $59.99
1300262 Down To Earth Bio-Live - 50 lbs. $97.69

DTE Bio-Turf, 8-3-5
Down to Earth Bio-Turf Is Great For Lawns & Gardens!
1300213 Down To Earth Bio-Turf - 6 lbs. $16.59
Larger sizes available - please go online or call.

DTE Citrus Mix, 6-3-3
The Nutrients You Need For Vibrant & Delectable Citrus!
1300295 Down To Earth Citrus Mix - 1 lb. $4.49
1300296 Down To Earth Citrus Mix - 5 lbs. $11.79
Larger sizes available - please go online or call.

DTE Rose & Flower Mix, 4-8-4
USDA Organic. A Nutrient-Rich Fertilizer That Invigorates Roses, Bulbs & Flowering Plants!
1300233 Down To Earth Rose & Flower Mini - 1 lb. $4.49
1300231 Down To Earth Rose & Flower Mix - 6 lbs. $11.79
Larger sizes available - please go online or call.

DTE Starter Mix, 3-3-3
Feed Your Young Plants Well With This Nutrient & Mycorrhizae Mix.
1300264 Down To Earth Starter Mix - 1 lb. $4.49
1300265 Down To Earth Starter Mix - 5 lbs. $12.39

DTE Vegan Mix, 3-2-2
A Veganic Fertilizer From Down To Earth For All Your Growing Needs!
1300237 Down To Earth Vegan Mix - 6 lbs. $11.79
Larger sizes available - please go online or call.

DTE Vegetable Garden, 4-4-4
Give Your Vegetable Garden A Powerful Nutrient Boost!
1300299 Down To Earth Vegetable Garden - 5 lbs. $11.79
See online for shipping restrictions.
**PRE-EMERGENTS**

**Sustâne® Spring Weed & Feed, 9-0-0**

*Prevent Weeds & Feed Your Lawn With This Organic Corn Gluten Meal.*

**TARGET:** Barnyard grass, Bermuda grass, crabgrass, creeping bentgrass, curly dock, dandelions, foxtail, lambsquarter, pigweed, plantains, purslane, redroot pigweed, smart weed and more.

**DESCRIPTION:** This OMRI listed corn gluten meal works wonders in 2 ways: it is a natural broadleaf pre-emergent that suppresses weeds to prevent them from establishing and it provides high levels of nitrogen to green up already established plants and turf. For use as an herbicide, apply before germination of seeds. Should not be applied to new seedlings or when laying sod.

**SUGGESTED USE:** Apply 6 lbs. per 1,000 sq. ft. with a broadcast spreader. Provides 0.54 lbs. of nitrogen per 1,000 sq. ft. A 30 lb. bag covers up to 5,000 sq. ft. Apply up to 20 lbs. per 1,000 sq. ft. for enhanced weed prevention.

1226810 Sustâne Spring Weed & Feed - 30 lb. Bag $35.00

**Earth Harvest Gluten-8 Liquid Corn Gluten - Set of 2**

*Easy-To-Apply Liquid Weed Control Without The Effort Of Lifting A Heavy Bag Of Corn Gluten Meal.*

**TARGET:** Pre-emergent weed control and mild nitrogen fertilizer.

**DESCRIPTION:** Water-soluble and derived from corn gluten meal, it provides pre-emergent control of annual grasses and broadleaf weeds without the effort of applying the granular corn gluten. This product is packaged in a container that has a hose-end spray head for a reliable application.

**SUGGESTED USE:** A 2 quart set of Gluten-8 represents a 40 pound bag of corn gluten meal and treats approximately 2,000 sq. ft.

1273015 Gluten-8 Liquid Corn Gluten - Set of 2 - 32 oz. Hose End $29.45

**SELECTIVE**

**BONIDE® Weed Beater® Fe**

*Kill Just The Weeds, Not The Lawn!*

**TARGET:** Selectively controls/suppresses broadleaf weeds, moss, lichens, algae and certain diseases growing in lawns.

**DESCRIPTION:** This product uses iron to kill the targeted plant – but not the grass – right down to the root within hours of application with no unpleasant odor. Some grass blades or thatch may darken slightly if contacted, but the grass will recover and not be harmed. You can enjoy your lawn as soon as the spray has dried. It’s okay to re-seed 1 day after application and apply new grass in 1 week.

**SUGGESTED USE:** Do not dilute RTU. Do not apply to drought-stressed grass or when daytime temps will exceed 85°F. Do not apply to bentgrass. Do not apply to newly seeded areas prior to grass seed germination. For best results, repeat treatment in 3-4 weeks, but don’t apply to the same area more than 4 times a year (not including spot treatments).

1453792 BONIDE Weed Beater Fe Conc. - 1 Pint $14.99
1453790 BONIDE Weed Beater Fe RTU - 1 Quart $9.99
1453791 BONIDE Weed Beater Fe RTU - 1 Gallon $28.99

Cannot be shipped to the following states: CA
**Avenger® Weed Killer**

**Fast-Acting Natural Herbicide.**

**TARGET:** Broadleaf, crab grass and other unwanted weeds.

**DESCRIPTION:** Avenger Weed Killer is a natural citrus oil based non-selective herbicide that eliminates broadleaf, crab grass and other unwanted weeds naturally and quickly.

**SUGGESTED USE:** Varies depending on size of weeds. The 24 oz. RTU is already mixed at a 1:3 ratio. Concentrate: Small annual weeds use 1:6 ratio; large annual weeds use 1:4.5 ratio; Hard to control weeds use 1:3 ratio.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1453808</td>
<td>Avenger Weed Killer - 24 oz. RTU</td>
<td>$12.95</td>
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<tr>
<td>1453809</td>
<td>Avenger Weed Killer - 1 Quart Concentrate</td>
<td>$25.00</td>
<td></td>
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<tr>
<td>1453810</td>
<td>Avenger Weed Killer - 1 Gallon Concentrate</td>
<td>$80.00</td>
<td></td>
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<tr>
<td>1453812</td>
<td>Avenger Weed Killer - 5 Gallon Concentrate</td>
<td>$330.00</td>
<td></td>
</tr>
</tbody>
</table>

*Cannot be shipped to the following states: DC, PR, SD, VI

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**Bonide® Burnout**

**Fast Acting Weed & Grass Killer!**

**TARGET:** Unwanted grass and weeds.

**DESCRIPTION:** Uses natural citric acid and clove oil to kill all types of weeds, unwanted grass, and their roots. This fast acting solution is great from driveways, sidewalks, around the base of mature trees, fence lines, around buildings and anywhere weed control is needed. This product is rainproof when dry and will work in temperatures as low as 40°F.

**SUGGESTED USE:** For RTU/PNS: Spray on broadleaf and grassy weeds, making sure all of the foliage is wet. For concentrate: Use 1:3 parts water, 1 gal. of mix covers about 1,500 sq. ft. Repeat application as necessary.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1453756</td>
<td>Bonide Burnout - 32 oz. RTU</td>
<td>$14.99</td>
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<tr>
<td>1453761</td>
<td>Bonide Burnout - 1 Gallon RTU</td>
<td>$39.99</td>
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</tr>
<tr>
<td>1453762</td>
<td>Bonide Burnout - 1 Gallon Conc.</td>
<td>$67.50</td>
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</tr>
<tr>
<td>1453763</td>
<td>Bonide Burnout - 2 1/2 Gallons Conc.</td>
<td>$156.25</td>
<td></td>
</tr>
</tbody>
</table>

**Phydura™**

**Replace Toxic Herbicides With This Wonderful-Smelling Knock Down Spray.**

**TARGET:** Unwanted leaves and grasses.

**DESCRIPTION:** OMRI listed Phydura uses clove oil and other biodegradable ingredients to quickly knock down and kill unwanted leaves and grasses. These ingredients work by adhering to the weed and breaking down the cell structure through a burn down process. After application, plants will begin to wilt in 30-60 minutes and be actively dying within 24 hours. Phydura is a non-selective herbicide, which means that all plants that come in contact with the spray will be affected. You will need to take extra care not to allow spray to contact non-target plants. Phydura will not translocate in the soil to the roots of desirable plants.

**SUGGESTED USE:** For younger, smaller plants mix with water at 3:1. For older, larger plants mix at 2:1. Re-treatment will be required for established perennials.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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</thead>
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<tr>
<td>1453880</td>
<td>Phydura - 32 oz. Concentrate</td>
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<tr>
<td>1453882</td>
<td>Phydura - 1 Gallon Concentrate</td>
<td>$52.95</td>
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<tr>
<td>1453884</td>
<td>Phydura - 2.5 Gallon Concentrate</td>
<td>$99.95</td>
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</tbody>
</table>

Larger sizes available.

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**SNS WeedRot™**

**An All-Round Excellent Choice For Non-Toxic Weed Control.**

**TARGET:** Star Thistle, Clover, Spurge, Dandelions and other weeds.

**DESCRIPTION:** This post-emergent, non-selective weed killer uses Citric Acid to efficiently knock down and kill many of the most problematic common weeds. It works on weeds in two ways: it adheres to and begins to remove the waxy outer layer on the plant and it penetrates well into the roots to block the plant’s ability to take in amino acids and nutrients. Will not persist in or cause harm to soil. Starts browning weeds in 1-2 days, with a complete kill in 5-10 days. EPA Exempt Title 25b. Not harmful to people or pets, so it can be used in and around your home and garden.

**SUGGESTED USE:** Spray directly on leaves and stems, saturating the entire plant. Works best on plants less than 6” in height; weeds larger than 6” may require additional applications. Start with 24 oz. of concentrate and add 104 oz. of water to make 1 gal of Ready to Use. More or less of the concentrate can be mixed based on weed size and weed type. For best results, use water that is around 7 pH and has a TDS (Total Dissolved Solids) of less than 250. In some cases, you may need to use a conditioner for your water.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>1453756</td>
<td>SNS WeedRot - 32 oz. RTU</td>
<td>$14.99</td>
<td></td>
</tr>
<tr>
<td>1453761</td>
<td>SNS WeedRot - 1 Gallon RTU</td>
<td>$39.99</td>
<td></td>
</tr>
<tr>
<td>1453762</td>
<td>SNS WeedRot - 1 Gallon Conc.</td>
<td>$67.50</td>
<td></td>
</tr>
<tr>
<td>1453763</td>
<td>SNS WeedRot - 2 1/2 Gallons Conc.</td>
<td>$156.25</td>
<td></td>
</tr>
</tbody>
</table>
**RootShield® Plus Granules & RootShield® Plus WP**

**Use This Biological Fungicide To**

**Eliminate Hard To Control Diseases!**

**TARGET:** Plant pathogens and resulting diseases such as Phytophthora, Rhizoctonia, Pythium, Fusarium, Thielaviopsis, and Cylindrocladium.

**DESCRIPTION:** OMRI listed and EPA registered, this product will help eliminate damaging fungal pathogens by colonizing plant root systems and by boosting biological diversity of the rhizosphere. This unique product is comprised of live microbial beneficial fungi Trichoderma harzianum strain T-22 and the newly developed Trichoderma virens strain G-41, delivering an extended array of pathogen control.

**SUGGESTED USE:** For control and prevention of major fungal pathogens and resultant diseases on greenhouse and nursery vegetables, herbs, ornamentals, fruits, conifer tree seedlings, various trees, legumes, oil seeds and peanuts. One application will last for approximately 12 weeks, and can be used with a 0-hr REI. This product can be used in conjunction with certain other fungicides, see label and other online resources for details.

- For granular usage, mix about 1.5-3 lbs. to 1 cu. yd. of mix or about four 40 lb. bags to 100 cu. yds. of soil mix. For WP, use about 6 oz. of powder to 100 gal. of water. For plug trays, flats and small pot with 1-3 in. of soil, use about 100 gal. mix/800 sq. ft. For beds and pots 4-5 in. deep, use about 100 gal. mix/400 sq. ft. For azalea pots 6 in. deep, use about 100 gal. mix/1600 pots.

**PreFence™ Biofungicide**

**Prevent And Control Fungal & Mold Diseases On Agronomic, Vegetable & Ornamental Crops.**

**TARGET:** For use to control wilt and rot diseases such as Fusarium, Rhizoctonia, Pythium and Phytophthora.

**DESCRIPTION:** OMRI listed PreFence contains mycelium and spores from a naturally occurring bacterial strain derived from Sphagnum peat. This bacterium encapsulates disease spores and stops them from causing devastating plant disease. In addition to controlling wilt and root diseases, it is also an exceptional tool to curb damping-off in propagation. It is most effective when used preventively before diseases have taken hold.

**SUGGESTED USE:** Can be dry mixed in potting soils, applied to soil, used for seed treatment or mixed with water for a dip, turf, spray or drench application. To make a suspension of water, mix in a small volume of water (such as 0.25-1.0 gal.) and let stand for approximately 30 minutes. Agitate as needed to evenly disperse PreFence before diluting to final volume (between 0.5-3 pints of water/100 sq. ft.).

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1332850</td>
<td>PreFence Biofungicide - 5 Grams</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>1332851</td>
<td>PreFence Biofungicide - 25 Grams</td>
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<td>$87.00</td>
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<td>1332852</td>
<td>preFence Biofungicide - 100 Grams</td>
<td></td>
<td>$315.00</td>
</tr>
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</table>

Cannot be shipped to the following states: AK, DC, IA, ID, IL, KS, KY, MD, MS, ND, NE, NH, SD

**RootShield® Home & Garden**

**Help Your Vegetables, Flowers & Ornamentals Fight Root Diseases!**

**TARGET:** For use against the following root diseases: Pythium, Fusarium, Rhizoctonia, Thielaviopsis and Cylindrocladium.

**DESCRIPTION:** RootShield Home & Garden is an OMRI listed product that will protect your plants from root disease pathogens and give them that extra boost to make them really flourish. The active ingredient in this natural pesticide is Trichoderma harzianum strain T-22, a beneficial fungus. This organism has been thoroughly developed and tested in over 18 years of university studies and is now ready to work for you. It will protect your plants’ roots from soil-borne diseases, which allows them to put their energy into growing and blossoming.

**SUGGESTED USE:** Mix RootShield Home & Garden with water (1-3 tbsp. per gallon) and apply immediately after mixing. Stir regularly during application. Use all your mixture, do not store product mixed with water. RootShield Home & Garden is designed for application to seeds, plant roots and soil for control of plant root diseases and not for spray application to foliage or fruit. **DO NOT APPLY** to sugarcane, pechay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple and chickpea. Not for use on aquatic crops.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Product Name</th>
<th>Size</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1332740</td>
<td>RootShield Home &amp; Garden - 4 oz.</td>
<td></td>
<td>$22.00</td>
</tr>
<tr>
<td>1332741</td>
<td>RootShield Home &amp; Garden - 1 Case (12 Bottles)</td>
<td></td>
<td>$215.00</td>
</tr>
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</table>

Cannot be shipped to the following states: AK, DC, HI, IA, MT, ND, NE, SD, WY
**Pvent**

**This Ultra-Concentrated Biofungicide Offers Long Lasting Protection.**

**TARGET:** Alternaria, anthracnose (Colletotrichum), Bipolaris, Botrytis, Cladosporium, Colletotrichum, Didymella, Fusarium, Helminthosporium, Monilinia, Mycosphaerella, Penicillium, Phytophthora, Plasmodiophora, Plocaria, Pyrenochaeta, Pythium, Rhizoctonia, Sclerotinia, Verticillium, mildews and other plant diseases.

**DESCRIPTION:** This preventative fungicide provides an enzyme secreted by G. catenulatum, which ruthlessly attacks pathogenic fungi in 3 ways: it rapidly colonizes its host environment and begins working symbiotically in the plant rhizospheres, root zone and in all new growth; it feeds on fungi on treated surface and then reproduces on the same area to ensure against pathogenic re-infection and it promotes Induced Systemic Resistance (ISR) properties in existing plants. Protection lasts 3-4 weeks. Can be used in conjunction with other bactericides/fungicides.

**SUGGESTED USE:** Apply by spraying or drenching the growth substrate.

**Surfactants are not generally needed, but a non-ionic type may be used. Foliar spray - 0.33 oz./5 gallons of water. Repeat every 7 to 14 days, depending on disease pressure. Field Chemigation or Drench - 0.16 oz./100 sq. ft. drip irrigation lines. Fogging - 0.016 oz./100 sq. ft. with a minimum water volume of 0.005 gallons per 100 sq. ft.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1222560</td>
<td>Pvent - 1/2 lb.</td>
<td>$145.99</td>
</tr>
<tr>
<td>1222561</td>
<td>Pvent - 1 lb.</td>
<td>$252.50</td>
</tr>
<tr>
<td>1222565</td>
<td>Pvent - 1/2 lb. - Case of 12</td>
<td>$1,475.00</td>
</tr>
<tr>
<td>1222566</td>
<td>Pvent - 1 lb. - Case of 12</td>
<td>$2,750.00</td>
</tr>
<tr>
<td>1222567</td>
<td>Pvent - 2.2 lbs. - Case of 6</td>
<td>$2,880.00</td>
</tr>
</tbody>
</table>

*Cannot be shipped to the following states: AK, HI, PR, SD, TN, WI*

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**Regalia®**

**OMRI Listed Control For Both Bacterial & Fungal Diseases.**

**TARGET:** Powdery mildew, downy mildew, white mold, early blight, shot hole, Fusarium, bacterial spots and specks, brown rot, Rhizoctonia and more.

**DESCRIPTION:** This biofungicide uses a plant (Reynoutria sachalinensis) extract to protect crops from certain soil-borne or foliar diseases and to boost production by improving overall plant health. Regalia can be used in multiple application methods on field and edible crops in conventional, sustainable and organic production. Unique FRAC P₅ classification. 4-hour REL.

**SUGGESTED USE:** Use early for disease prevention and overall plant health and through the season for continued disease control. Small scale applications: 2 Tbsp./gal. of water. Foliar applications: Downy Mildew and White Mold: 2-4 qts/acre. Soil applications: Fusarium: 3-4 qts/acre.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1332969</td>
<td>Regalia - 1 Gallon</td>
<td>$92.00</td>
</tr>
<tr>
<td>1332970</td>
<td>Regalia - 2.5 Gallons</td>
<td>$220.00</td>
</tr>
</tbody>
</table>

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**Actinovate® Lawn & Garden Fungicide**

**Prevents & Treats Lawn, Root & Foliar Diseases!**

**TARGET:** Root rot, damping off, turf diseases (brown-patch, dollar spot & take-all patch), club root, grey & pink snow mold, powdery & downy mildew, grey mold, spot diseases, rusts, blights, citrus canker, bacterial blast and peach curl.

**DESCRIPTION:** This OMRI listed fungicide contains a high concentration of the beneficial microorganism Streptomyces lydicus WYEC 108, which works to create a mutualistic relationship with your plants. It will feed off the plant byproducts and, in turn, protect the plant from disease pathogens. Can be applied with a hose-end sprayer, pump-up sprayer or watering can.

**SUGGESTED USE:** One 2 oz. package will treat up to 5,000 sq. ft. of lawn. Apply about 1/2 tsp./1 gal. water for foliar applications, 1 tsp./2 gals. for potted plants and 2 oz./5,000 sq ft of lawn or about every 550 plants. For best results, apply at the beginning of each season before the onset of disease. Applications should be made every 1-8, depending on how and where it is being applied and how severe the disease is.

1420001 Actinovate Lawn & Garden - 2 oz. $27.00

*Cannot be shipped to the following states: AK, HI, PR*

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**Monterey Complete Disease Control**

**This OMRI Listed Biofungicide/Bactericide Works As A Spray Or As A Drench.**

**TARGET:** Blights, molds, spots, rots and mildews.

**DESCRIPTION:** This broad spectrum preventative biofungicide/bactericide contains Bacillus amyloliquefaciens strain D747. When used as a soil drench, this naturally occurring bacterium goes straight to the plant's roots, where it will establish itself and grow. This colonization prevents the establishment of disease-carrying bacteria and fungi in the soil. When used as a foliar spray, this bacterium will overcome any pathogenic spores present on foliage.

**SUGGESTED USE:** Standard mix rate: 1 tsp. /gal. of water. Foliar spray: Repeat every 7-10 days or as needed. As a soil drench: Drench the roots of transplants one 2 oz. package will treat up to 5,000 sq. ft. of lawn.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>1458203</td>
<td>Monterey Complete Disease Control - 32 oz. RTU</td>
<td>$16.40</td>
</tr>
<tr>
<td>1458200</td>
<td>Monterey Complete Disease Control - 8 oz. Conc.</td>
<td>$13.00</td>
</tr>
<tr>
<td>1458201</td>
<td>Monterey Complete Disease Control - 1 pt. Conc.</td>
<td>$17.80</td>
</tr>
<tr>
<td>1458202</td>
<td>Monterey Complete Disease Control - 1 gallon Conc.</td>
<td>$101.99</td>
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</table>

*Cannot be shipped to the following states: RTU (1458203): MO
8 oz. concentrate (1458200) and 1 pt. concentrate (1458201): MO, ND
1 gal. concentrate (1458202): NY*
Cease® - Biological Fungicide

For Control Of Soil Pathogens As Well As Fungal & Bacterial Plant Diseases!

TARGET: Botrytis, powdery mildew, anthracnose, leaf spot diseases including Alternaria and Entomosporium; bacterial diseases such as Pseudomonas, Erwinia, and Xanthomonas spp., as well as the soil diseases Rhizoctonia, Pythium, Fusarium and Phytophthora.

DESCRIPTION: Cease is a contact biological fungicide that contains Bacillus subtilis, that stops pathogens from developing on plant leaves.

SUGGESTED USE: Approved for NOP production. Use 2-8 qts./100 gallons of water approximately once per week. (see label online for specific crops and diseases.) This product is suitable for wet applications. Use with a spreader sticker such as ThermX™-70 Natural Wetting Agent (see page 49) in wet environments.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1332724</td>
<td>Cease - 1 Gallon</td>
<td>$75.50</td>
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<tr>
<td>1332727</td>
<td>Cease - 2.5 Gallons</td>
<td>$170.00</td>
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<tr>
<td>1332725</td>
<td>Cease - 1 Gallon, Case of 4</td>
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<tr>
<td>1332728</td>
<td>Cease - 2.5 Gallons, Case of 2</td>
<td>$275.00</td>
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</tbody>
</table>

BONIDE® Sulfur Plant Fungicide

Effective Against Several Key Insect Pests As Well As Fungal Diseases.

TARGET: Knockdown control for apple cedar rust, black rot, brown rot, citrus red spider, fleas, frog eye, leaf spot, powdery mildew, quince rust, rust mite, scab, scale, sooty blotch, thrips, ticks, two-spotted spider mites and russet mites.

DESCRIPTION: The fine particles of this micron sulfur product provide optimum coverage, adhesion and disease control and work equally well whether applied as a dust or mixed with water for a spray. For best results, apply thoroughly to all leaf surfaces before diseases develop and repeat weekly to maintain control.

SUGGESTED USE: Specially formulated for use on berries, cherries, grapes, citrus, apples, cucurbits, apricots and currants. Do NOT use when an oil spray has been applied within the prior month or when temperatures are expected to exceed 80°F. This container covers approximately 500 sq. ft. at the general mix and application rate.

<table>
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<tr>
<th>Product Code</th>
<th>Description</th>
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<tr>
<td>1454701</td>
<td>BONIDE Sulfur Plant Fungicide - 1 lb. Bottle</td>
<td>$8.75</td>
</tr>
<tr>
<td>1454702</td>
<td>BONIDE Sulfur Plant Fungicide - 4 lb. Bag</td>
<td>$17.00</td>
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</tbody>
</table>

Serenade® Garden Disease Control

This Biofungicide Works Great For Treating A Broad Spectrum Of Plant Diseases.

TARGET: Black spot, powdery mildew, rust, gray mold, late blight, scab and many more.

DESCRIPTION: This biofungicide is made from a patented living microbial strain QST 713 Bacillus subtilis and can be used on roses, vegetables, fruits, nuts, flowers, houseplants, ornamentals, foliage, trees and landscape shrubs.

SUGGESTED USE: Apply in ≈7 day increments up to and on the day of harvest. Apply at any time of day, in direct sun and at high temperatures. Treat prior to presence of plant disease and increase frequency in excess environmental moisture. Apply using pressurized hand-held sprayer or hose-end sprayer. For concentrate: depending upon the infection, mix between 2-4 fl. oz. per gal. of water.

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<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000080</td>
<td>Serenade 32. oz. Concentrate</td>
<td>$22.85</td>
</tr>
<tr>
<td>2000081</td>
<td>Serenade 32 oz. RTU Spray Bottle</td>
<td>$15.75</td>
</tr>
<tr>
<td>2000082</td>
<td>Serenade 32 oz. RTS Hose End</td>
<td>$26.00</td>
</tr>
</tbody>
</table>

BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

TARGET: Works as a knockdown control for the following: anthracnose, bacterial blight, bacterial leaf spot, black spot, Botrytis, brown rot, Cedar apple rust, citrus scab, downy mildew, fireblight, Phytophthora, powdery mildew, and scab.

DESCRIPTION: Liquid copper fungicide helps prevent and treat many diseases on a wide variety of trees and ornamental plants. Liquid Copper can be used on grapes, vegetables, fruit trees, berry bushes, roses, pine, cedars and more. For garden use only.

SUGGESTED USE:
- Mix ≈2-6 lbs./gal. of water or 1 qt./100 gal. depending upon infestation.
- Repeat at 7-14 day intervals until harvest.
- Plant and crop-specific instructions included.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1455101</td>
<td>BONIDE Liquid Copper Fungicide - 16 oz. Conc.</td>
<td>$16.45</td>
</tr>
</tbody>
</table>

Cannot be shipped to the following states: AK, DC, PR.

Cannot be shipped to the following states: AK, DC.
Banish

**Controls Downy & Powdery Mildew Pathogens With Geraniol.**

**TARGET:** Use to control and prevent downy mildew and powdery mildews, including the following: *Podosphaera fusca*, *Erysiphe nector* (*Uncinula necator*), *Podosphaera leucotricha*, *Podosphaera aphanis* and *Oidium lycopersicum*.

**DESCRIPTION:** This outstanding fungicide uses geraniol, a natural geranium oil plant extract, to control common mildews in plants. Banish works in a two-fold process to prevent mildew growth and heal plants from the cell up. The geraniol works by creating an unbalance of potassium (K+) ions in the mycelium. This unbalance inhibits spore germination and mycelium growth and will, ultimately, enter the pathogen cell and kill it.

**SUGGESTED USE:** For use only as a foliar spray. The mix rate is 13 fl oz. (3/4 tsp.) or 3.8 mL/gal water. Spray directly on all infected foliage until it’s evenly covered. Apply every 5-7 days until infestation is controlled. For prevention, apply every 10-14 days.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description &amp; Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1458170</td>
<td>Banish - 2 oz. Concentrate</td>
<td>$30.00</td>
</tr>
<tr>
<td>1458172</td>
<td>Banish - 32 oz. Concentrate</td>
<td>$259.50</td>
</tr>
<tr>
<td>1458173</td>
<td>Banish - 1 gallon Concentrate</td>
<td>$599.50</td>
</tr>
</tbody>
</table>

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Defender PM

**You Can Use This Fungicide During Both Vegetative & Flowering Phases.**

**TARGET:** Powdery mildew diseases caused by *Erysiphales* fungi.

**DESCRIPTION:** This Citrus Oil based fungicide is made with food grade ingredients and will not persist on plant leaves. It works on contact to surround and smother *Erysiphales* fungal spores and other powdery mildew pathogens. Use with your foliar regime to prevent and/or control outbreaks. Can be used in all growing methods and on all food crops.

**SUGGESTED USE:** Apply as a foliar spray. Heavy fungus: 200 ml/gal. Fungus issue: 150 ml/gal. Minor fungus issue: 120 ml/gal. Preventative and on clones: 100 ml/gal. Heavy issues may need repeat applications every 2-3 days, otherwise spray weekly.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description &amp; Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1458120</td>
<td>Defender PM - 8 oz.</td>
<td>$18.00</td>
</tr>
<tr>
<td>1458121</td>
<td>Defender PM - 16 oz.</td>
<td>$37.00</td>
</tr>
<tr>
<td>1458122</td>
<td>Defender PM - 32 oz.</td>
<td>$72.00</td>
</tr>
<tr>
<td>1458123</td>
<td>Defender PM - 64 oz.</td>
<td>$135.00</td>
</tr>
<tr>
<td>1458124</td>
<td>Defender PM - 1 gallon</td>
<td>$249.00</td>
</tr>
<tr>
<td>1458125</td>
<td>Defender PM - 5 gallons</td>
<td>$1,090.00</td>
</tr>
</tbody>
</table>

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MilStop® Broad Spectrum Foliar Fungicide

**Excellent For Controlling Powdery Mildew & Other Fungal Diseases!**


**DESCRIPTION:** MilStop is an OMRI listed, WSDA registered foliar fungicide. Potassium bicarbonate-based fungicide that kills powdery mildew on contact by pulling water from spores and their growing strands. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface. Foliar applications provide 1-2 weeks of residual protection.

**SUGGESTED USE:** Generally 2.5 lbs./100 gal. of water. (See label online for specific crops, diseases and application systems.)

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description &amp; Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1332753</td>
<td>MilStop Foliar Fungicide - 5 lb.</td>
<td>$63.00</td>
</tr>
</tbody>
</table>

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SuffOil-X®

**OMRI Listed Pre-Emulsified Mineral Oil**

**Suffocates Many Soft-Bodied Insects & Controls Certain Fungal Diseases.**

**TARGET:** Aphids, adelgids, armored scales, mealybugs, cankerworms, *Eriophyid* mites, leafrollers, leaffoppers, leaf tiers, plant bugs, psyllids, soft scales, spider mites, whiteflies, webworms and rust and powdery mildew.

**DESCRIPTION:** Made with highly refined pre-emulsified mineral oil, this suffocant creates the optimum in coverage with limited risk of plant damage. The pre-emulsified process used creates a lighter oil that dries faster, will not cause phototoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

**SUGGESTED USE:** Can be used with a wide variety of crops indoors or outdoors. Do not apply through any type of irrigation system (chemigation), during periods of drought, or when plants exhibit moisture stress. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Don’t spray in high wind or temps over 95°F. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description &amp; Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1332805</td>
<td>SuffOil-X - 2.5 gallons</td>
<td>$62.00</td>
</tr>
<tr>
<td>1332806</td>
<td>SuffOil-X - Case of 2 ct./2.5 Gals.</td>
<td>$112.00</td>
</tr>
</tbody>
</table>

Larger sizes available.

**Shipping Restrictions:** Cannot ship via US Mail or air shipping methods. Cannot be shipped to the following states: AK, DC.
CLEANING & SANITIZING

The Power of Peroxyacetic Acid

Similar in chemical makeup, SaniDate 5.0 and OxiDate 2.0 are two very different products with very different uses.

SaniDate 5.0 is a no rinse required sanitizer for greenhouse use. Using a peroxy compound, SaniDate can quickly and effectively reduce harmful pathogens. Not only can this product be used on hard surfaces in the greenhouse, it can be used for equipment sanitation, food prep surfaces and also irrigation lines. It can also be used as a post-harvest sanitizer. Mix SaniDate in your dip tank or spray directly onto harvested fruits and vegetables to prevent the pathogens that cause spoilage. SaniDate is a great, environmentally responsible alternative to chlorine.

OxiDate 2.0 is a pre-harvest bactericide and fungicide. OxiDate can be used in certified organic and conventional agriculture. Not only does OxiDate help prevent plant pathogens, it works as a curative product by killing fungal spores and bacterial inoculum. OxiDate does not have a REI and can be used until harvest. This product can be tank mixed with fungicides and insecticides for extra protection and because of the active ingredient is peroxxygen, there is no concern of resistance.

SaniDate® 5.0
An OMRI Listed Sanitizer/Disinfectant.

TARGET: Bacteria including Salmonella, Streptococcus, E. coli, Pseudomonas, Staphylococcus aureus, Listeria and molds, including mildew.

DESCRIPTION: Contains hydrogen peroxide and peroxyacetic acid as an alternative to chlorine to sanitize and disinfect post harvest equipment, fruit and vegetables and various hard surfaces. Usage industries include farms, dairies, beverage plants, food processing plants, greenhouses, etc. No dumping or run-off restrictions.

SUGGESTED USE: For general disinfection, sanitation of surfaces, food safety programs, irrigation systems and greenhouse use mix about 0.5 fl. oz./1 gal. of water. Solution can be applied various ways depending on desired usage. Applications can be made with mops, sponges, spraying devices, etc.

1222515  SaniDate 5.0 - 2.5 Gallons  $208.00
1222517  SaniDate 5.0 - 5 Gallons  $308.00
Larger sizes available. All sales of SaniDate are final.

WARNING
Corrosive: Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, and rubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. Strong oxidizing agent. Do not use in concentrated form. Mix only with water in accordance with label instructions. Never bring concentrate in contact with other pesticides, cleaners or oxidative agents.

OxiDate® 2.0
Clean Your Greenhouse & Tools With This Environmentally Friendly Alternative To Copper Fungicides!

TARGET: Preventative and curative treatment against plant pathogens and diseases such as Alternaria, anthracnose, Aphanomyces, bacterial spot, viral spec, black spot, Botrytis (grey mold), brown spot, downy mildew, Erwinia, Fusarium (root rot), leaf spot, Phytophthora, Plasmopara, powdery mildew, Pseudomonas, Pythium, Rhizoctonia, rust, scab, smut and Thielaviopsis.

DESCRIPTION: OxiDate uses the rapid oxidative property of peroxyacids to eliminate bacteria and fungi on contact. Use repeatedly on a variety of crops without cultivating resistance or leaving behind any visible residues or odor. OxiDate may also be used for cleaning surfaces, tools, water filters and equipment. Excellent for use in cleaning greenhouses.

SUGGESTED USE: Ensure that a minimum ratio of 1:100 is used.

1222501  OxiDate 2.0 - 2.5 Gallons  $240.00
1222502  OxiDate 2.0 - 5 Gallons  $370.00
Larger sizes available.

*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.

Cannot be shipped to the following states: PR, VI, GU, AS, PW, AK, HI

Vital Oxide
Kill Dangerous Bacteria & Viruses On All Surfaces.


DESCRIPTION: Vital Oxide uses chlorine dioxide to create a fast-acting, environmentally friendly, ultra-effective broad-spectrum antibacterial cleaner that provides odor elimination, allergen elimination, hospital disinfection, sanitation of food contact surfaces and mold/mildew removal and prevention. This product comes to you hospital-grade and ready-to-use or it can be diluted to fit your needs. It can be sprayed on, wiped on or used in a fogger. This EPA registered, non-corrosive cleaner will leave no strong odor or offensive taste.

SUGGESTED USE: Use full strength for heavy soil/filth, to disinfect hard non-porous surfaces, to prevent mold & mildew and to deodorize. Dilute for use on floors, carpets and food and non-food contact hard non-porous surfaces.

1457650  Vital Oxide - 3 oz. Spray  $6.25
1457651  Vital Oxide - 3 oz. - Bundle of 3  $16.50
1457652  Vital Oxide - 3 oz. - Bundle of 5  $25.00
1457655  Vital Oxide - 32 oz. (1 Quart) Trigger Sprayer  $14.95
1457657  Vital Oxide - 128 oz. (1 Gallon)  $45.95
ThermX-70 Natural Wetting Agent

**DESCRIPTION:** This natural wetting agent is derived from yucca and contains 20% saponin extracted from *Yucca schidigera*. Saponin helps plants overcome adverse water conditions and is a great sticker for other sprays. Use ThermX-70 to increase crop’s ability to establish in stressed conditions and increase water and fertilizer uptake. Increases permeability in heavy clay soil and reduces salt and alkali problems by improving drainage.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.

<table>
<thead>
<tr>
<th>Product</th>
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<tbody>
<tr>
<td>ThermX-70 Natural Wetting Agent</td>
<td>1 Quart</td>
<td>$27.00</td>
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<tr>
<td></td>
<td>1 Gallon</td>
<td>$94.50</td>
</tr>
<tr>
<td></td>
<td>5 Gallons</td>
<td>$330.55</td>
</tr>
</tbody>
</table>

*Call for freight quote. Call for larger sizes.

RAW Yucca Flow

**DESCRIPTION:** Made from 100% natural yucca extract, this is the perfect addition to any nutrient or foliar spray program. It will keep minerals and nutrients in suspension during delivery and prevent nutrient lock-up. When used in a soil drench or flush, it helps distribute water and nutrients deeper and more thoroughly while pushing out excess salts from the root zone. Fully water soluble and very concentrated. Can be used in all stages of growth and flower. Increases water retention and helps plants recover from drought stress.

**SUGGESTED USE:** Works in conjunction with all nutrient and feeding programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>RAW Yucca Flow</td>
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<td>$11.46</td>
</tr>
<tr>
<td></td>
<td>8 oz.</td>
<td>$30.78</td>
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Water Conditioner

**DESCRIPTION:** Clean water is essential for healthy and productive growing. Most tap water in urban and suburban areas are treated with sanitizing agents which may include chlorine and chloramines. However, if the desired combination has not been previously used, a compatibility test is recommended. For ground applications with (a) insecticides and insect growth regulators use 3/4 lb. per 100 gallons of spray solution, (b) fungicides and herbicides: use 1-2 lbs. per 100 gallons of spray solution. For aerial applications use 2-3 lbs./acre in a minimum of 10 gallons of spray solution. If higher rates are recommended by a pesticide label, follow those label directions.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing treatments.

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>Water Conditioner</td>
<td>8 oz.</td>
<td>$16.95</td>
</tr>
<tr>
<td></td>
<td>32 oz.</td>
<td>$35.95</td>
</tr>
</tbody>
</table>

**TARGET:** Removes, neutralizes and detoxifies chlorine, chloramines and heavy metals in water.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing with first time tank or reservoir use; before/after adding or changing water and before/after adding fish/aquatic life or plants. 8 oz. will treat up to 2,000 gallons. 32 oz. will treat up to 8,000 gallons. Use 1-2 tsp./40 gals water. For larger applications use 1 fl oz./250 gals water.

**TARGET:** Improves nutrient delivery and water retention, prevents nutrient lock-up and removes excess salts.

**SUGGESTED USE:** Call for freight quote. Call for larger sizes.

**TARGET:** Overcome Adverse Water Conditions!

**SUGGESTED USE:** Product is compatible with most agricultural chemicals. However, if the desired combination has not been previously used, a compatibility test is recommended. For ground applications with (a) insecticides and insect growth regulators use 3/4 lb. per 100 gallons of spray solution, (b) fungicides and herbicides: use 1-2 lbs. per 100 gallons of spray solution. For aerial applications use 2-3 lbs./acre in a minimum of 10 gallons of spray solution. If higher rates are recommended by a pesticide label, follow those label directions.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing treatments.

**TARGET:** Increases water & fertilizer uptake.

**DESCRIPTION:** Brandt Organics SKH Sticker is a mineral-based premium sticker for foliar applications in high moisture conditions that contains an ingenious combination of Bentonite, Lactose and Casein. It will improve the effectiveness and increase the longevity of insecticides, insect growth regulators, nutritional sprays, fungicides and herbicides. Specially formulated to stand up to moisture, this product will resist rain and irrigation run-off and effectively adhere sprays to their target.

**SUGGESTED USE:** Product is compatible with most agricultural chemicals. However, if the desired combination has not been previously used, a compatibility test is recommended. For ground applications with (a) insecticides and insect growth regulators use 3/4 lb. per 100 gallons of spray solution, (b) fungicides and herbicides: use 1-2 lbs. per 100 gallons of spray solution. For aerial applications use 2-3 lbs./acre in a minimum of 10 gallons of spray solution. If higher rates are recommended by a pesticide label, follow those label directions.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing treatments.

**TARGET:** Overcome Adverse Water Conditions!

**DESCRIPTION:** This natural wetting agent is derived from yucca and contains 20% saponin extracted from *Yucca schidigera*. Saponin helps plants overcome adverse water conditions and is a great sticker for other sprays. Use ThermX-70 to increase crop’s ability to establish in stressed conditions and increase water and fertilizer uptake. Increases permeability in heavy clay soil and reduces salt and alkali problems by improving drainage. Stimulates root growth, extending the area irrigation reaches.

**SUGGESTED USE:** Use in hydroponic, aquaponics and traditional growing treatments.

**TARGET:** Improves nutrient delivery and water retention, prevents nutrient lock-up and removes excess salts.

**SUGGESTED USE:** Works in conjunction with all nutrient and feeding programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.

**TARGET:** Improves nutrient delivery and water retention, prevents nutrient lock-up and removes excess salts.

**SUGGESTED USE:** Works in conjunction with all nutrient and feeding programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.

**TARGET:** Improves nutrient delivery and water retention, prevents nutrient lock-up and removes excess salts.

**SUGGESTED USE:** Works in conjunction with all nutrient and feeding programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.
**HOSE END SPRAYERS**

**Chameleon Adaptable Hose End Sprayer**

Get Perfect Application With This Highly Adjustable Sprayer.

**DESCRIPTION:** Multipurpose sprayer that works great with Beneficial Nematodes (see pages 17-19). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

**SUGGESTED USE:** Any garden products requiring dilution and application with a sprayer, including applying Beneficial Nematodes.

180006  Chameleon Adaptable Hose End Sprayer - 1 Sprayer  $14.75

**Economical Liquid Hose End Sprayer**

This Simple Sprayer Does All That You Need It To.

**DESCRIPTION:** This hose-end sprayer is the perfect choice for no-fuss, inexpensive yet effective spraying. It will accurately mix and spray in 3 simple steps (fill, attach and spray) and with only 3 settings to choose from (ON, OFF & Water Only), there’s no complicated spray settings or conversions to figure out. Capable of spraying 1-30 gallons (4-76 liters). Can be used with most brands of liquid concentrates used by homeowners and professionals.

**SUGGESTED USE:** Use for watering, applying fertilizers, pest and weed controls and/or cleaning solutions.

1800106  Hudson Economical Hose End Sprayer  $8.99

**BONIDE® Auto Mix Hose End Sprayer**

No Mixing Or Measuring - Just A Few Quick Steps To Get You Spraying.

**DESCRIPTION:** This easy-to-use hose end sprayer automatically mixes the correct amount of product for a flawless liquid application with no fuss. Pour product directly into jar (up to 1 qt) and spray. It has 12 settings from 1 tsp. to 6 gals. and 3 spray patterns – stream (ideal for hard to reach areas and trees), flat fan (for wide surfaces like lawns) and shower (nice and gentle for delicate flowers and foliage). Ergonomic handle with a simple on/off thumb switch. Wide mouth and sturdy base for easy filling and fewer spills. Full instructions, complete with diagrams, to make an easy-to-use product even clearer.

**SUGGESTED USE:** Use for diluting and spraying gardening products and applying Beneficial Nematodes.

1800010  BONIDE Auto Mix Hose End Sprayer  $17.99

**Self-Mixing Hose End Sprayer**

No Pre-Mixing Needed With This Powerful and Versatile Sprayer.

**DESCRIPTION:** This workhorse of a sprayer has all the options you want for nearly any type of spraying you need done: 3 spray patterns (shrub, lawn and tree) give you exactly the type of coverage you need; adjustable from fine spraying to a stream that will reach up to 30 ft.; sprays up to 100 gallons in a single filling and has 16 mixture settings. With a durable brass mixing head, metal spray handle and sturdy, reusable poly bottle this sprayer will stand up to the test of time.

**SUGGESTED USE:** Use to spray foliar nutrients and most brands of fertilizers, herbicides and insecticides.

1800107  Self-Mixing Hose End Sprayer  $23.99

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Let the Hose End Sprayer Do the Mixing For You!

- Beneficial Nematodes - Pages 17-19
- Insecticides - Pages 24-30
- Herbicides - Pages 46-47
- Fungicides - Pages 48-51

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For Larger Capacity Sprayers, Visit arbico-organics.com
**Perma-Guard™ Crawling Insect Control**

*An OMRI Listed Diatomaceous Earth Insecticide That Really Does The Job!*

**TARGET:** Any crawling or hopping pest insect.

**DESCRIPTION:** Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with amorphous silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI listed product, you will receive continued protection.

**SUGGESTED USE:** Apply with a hand duster, power duster or as slurry to areas where insects are found. Avoid introducing into the air. Dust insects directly, if possible.


**1218250**  Perma-Guard Crawling Insect Control - 2 lb. Bag  $10.15  
**1218260**  Perma-Guard Crawling Insect Control - 5 lb. Bag  $18.35
Case sizes available.  
Cannot be shipped to the following states:  AK, CO, HI, LA, ME, MD, MA, MS, NJ, NC, OH, OK, PA, RI, SD, TN, UT, WV, WI, WY

**Beneficial Nematodes**

Combo packs of NemAttack™ & NemaSeek™

Beneficial Nematodes are your #1 defense against eggs and developing stages of fleas outdoors. Use these two varieties of beneficial nematodes for your most comprehensive control. See pages 17-19 for more information.

**Essentria™ G Granular Insecticide**

*A Granular That Handles A Handful Of Outdoor Pests!*

**TARGET:** Ants, bermudagrass mites, centipedes, chiggers, chinch bugs, cockroaches, crickets, earwigs, fall armyworms, fleas, leafhoppers, millipedes, sowbugs/pillbugs, and other insect pests.

**DESCRIPTION:** This quick and long-lasting natural granular insecticide uses essential botanical oils clove, thyme and wintergreen to treat various pests. Easy-to-use outdoors on landscapes, turf, building facilities and around organic operations, sensitive areas such as schools, and in aquatic environments.

**SUGGESTED USE:** Use with a hand spreader. For treatments around buildings, apply uniformly a band about 5-10 ft. wide. For landscapes and turf, use around 3-5 lbs./1000 sq. ft. Water in, applying about 1/8 in. - 1/4 in. of water without puddling. For ant mounds, use about 1-2 tsp./nest. For red imported fire ants, use around 1/2 cup/nest and make a 2 ft. band around nest.


**1273050**  Essentria G Granular Insecticide - 22 lbs.  $67.50

**Electronic Flea Trap**

*Great Indoor Flea Control!*

**TARGET:** Monitors and captures fleas.

**DESCRIPTION:** Each capture pad lasts for approx. three months or until filled with up to 10,000 fleas. Excellent flea control without toxic chemicals! Light and heat attracts fleas 24 hours a day and draws fleas from up to 25 feet away. 6” x 5” capture pad holds up to 10,000 fleas. Attractive, durable, patented design.

**SUGGESTED USE:** 1 trap per 2-3 dogs depending on dog's size.


**1280101**  Flea Trap - 1 Unit  $17.50  
**1280103**  Flea Trap - 1 Unit (Bundle of 3)  $45.00  
**1280102**  Capture Pads (3 Pack)  $6.50  
**1280106**  Capture Pads 3 Pack (Bundle of 3)  $18.75

**Flea ‘n Tick B Gone™**

*Fast Acting & Easy-To-Use!*

**TARGET:** Owners wanting natural flea control for their pets.

**DESCRIPTION:** This professional strength, enzyme based formula has been proven to effectively remove fleas, ticks, lice and other pests from a variety of pets without the use of harmful pesticides. Enzymes kill the fleas and ticks by dissolving their exoskeletons.

**SUGGESTED USE:** Simply apply directly to your pet’s fur, wait 10-30 minutes (depending on level of infestation), lather and rinse with warm water.


**1452501**  Flea ‘n Tick B Gone - 16 oz. RTU  $17.98  
**1452502**  Flea ‘n Tick B Gone - 1 Gallon  $63.00

For More Flea & Tick Control Solutions, Visit arbico-organics.com
**ANIMAL CONTROL**

**TRAPS & REPELLENTS**

**Repeater™ & Little Pete® Multiple Catch Mouse Traps**

Catch & Release Multiple Mice At Once!

**TARGET:** Mice.

**DESCRIPTION:** These galvanized metal traps are designed to allow mice to enter the trap, while simultaneously latching door shut! See-through, and reusable. The smaller trap can hold up to about 9 mice at one time, the larger trap can hold approximately 30 mice!

**SUGGESTED USE:** Does not require bait. For best results, place a fragrant snack like peanut butter on a cracker into the trap. Place hinged side along floor boards and check trap regularly. Release mice promptly. Replace snack in trap, reset, and reuse!

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1255101</td>
<td>Little Pete Multiple Catch Mouse Trap</td>
<td>$12.99</td>
</tr>
<tr>
<td>1255100</td>
<td>Repeater Multiple Catch Mouse Trap</td>
<td>$14.99</td>
</tr>
</tbody>
</table>

**BONIDE® Mouse Magic**

Mouse Repellent

Repel Rodents With Essential Oils From Homes, Sheds, Garages, Campers, Barns, Cellars & More!

**TARGET:** Mice.

**DESCRIPTION:** Repels with essential oils, such as spearmint and peppermint. Masks the scent of trails used to infest areas, and triggers escape and avoidance behaviors in rodents. One pack will treat an averaged sized room for approximately thirty days when used according to the directions.

**SUGGESTED USE:** Distribute where mice or rodents may feed, nest, or travel. Place near stored animal foods, near nesting and feeding entry ways, or under large appliances. Use one pack for an average size room, and increase the number of packs used, until desired level of control is reached.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1287720</td>
<td>BONIDE Rat Magic Scent Packs - 8 Count</td>
<td>$18.99</td>
</tr>
<tr>
<td>1287721</td>
<td>BONIDE Rat Magic Granules - 5 lbs</td>
<td>$19.99</td>
</tr>
</tbody>
</table>

**BONIDE® Rat Magic™**

Two Different Ways To Get The Same Great Rodent Control.

**TARGET:** Use to drive away rats, squirrels, chipmunks and other rodents.

**DESCRIPTION:** This combination of cedarwood, castor, clove and peppermint oils is repugnant to rodents and triggers an escape/avoidance response in them. This formula comes in two versions, granules and scent packs. Both are biodegradable and easy to use, simply choose what suits your particular needs the best. Not harmful to plants, people or pets.

**SUGGESTED USE:** Scent Packs: Distribute where rodents hide, feed or congregate. Use 1 pack per average size room and increase as needed until desired affect is achieved. Granules: Barrier/perimeter treatment - Sprinkle to create a band around area to protect. 1 lb. will treat a band 2’ W x 100’ L. For maintenance, use 1 lb/200 sq. ft. Reapply every 2 weeks or after rains. Indoor Use: Sprinkle where rodents hide, feed or congregate. Vacuum up and reapply every 2 weeks or until infestation is eliminated.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1287601</td>
<td>BONIDE Repels-All Animal Repellent 1 Quart RTU</td>
<td>$15.28</td>
</tr>
<tr>
<td>1287600</td>
<td>BONIDE Repels-All Animal Repellent 1 Quart Conc.</td>
<td>$21.50</td>
</tr>
</tbody>
</table>

**BONIDE® Repels-All® Animal Repellent**

Natural Ingredients That Repel A Variety Of Critters!

**TARGET:** Armadillos, beavers, birds, cats, crows, chipmunks, deer, groundhogs, mice, porcupines, rabbits, raccoons, rats, skunks, shrews, and voles.

**DESCRIPTION:** A comprehensive animal repellent for use on plants and property structures for up to 2 months per each application. Containing a mixture of dried blood, putrescent egg, garlic, fish oil, cloves, and onions it will repel animals with both smell and taste.

**SUGGESTED USE:** Rainfast after 6 hours. Do not use on edibles. Shake before using and mix the concentrate with appropriate amount of water. The 1 qt. concentrate will make up to 2 gallons of repellent. Apply as needed with any type of sprayer and water afterwards.

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<td>$21.50</td>
</tr>
</tbody>
</table>

Cannot be shipped to the following states:

**BONIDE® Mouse Magic**

**1287720:** CT, IN, ME, NM, SD

**1287721:** IN, NM

**BONIDE® Rat Magic™**

**1287720:** CT, IN, ME, NM, SD

**1287721:** IN, NM
Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

**TARGET:** Use to protect small planting areas, bulbs, flowers, shrubs, trees, lawns, raised beds, planter boxes, and entire garden areas.

**DESCRIPTION:** Designed to keep the smallest and most pernicious gophers from ruining your garden or lawn. Built from long-lasting 20-gauge, double galvanized metal.

**SUGGESTED USE:** Pull basket sides apart, flatten out bottom fold, bend side seams flat against bottom, round sides and place in a pre-dug hole. There is a 3” green strip indicating how deep to place the basket. Leave green edge exposed to help deter above ground feeding. Place plant in the basket, fill hole with soil, and water as usual. When selecting proper size, choose a basket that is one size larger to allow for plant growth.

1257200  Wire Mini Basket (Pack of 6)  $6.72
1257201  Wire Mini Basket - 1 Gallon (Pack of 2)  $7.50
1257202  Wire Mini Basket - 3 Gallon  $7.00
1257203  Wire Mini Basket - 5 Gallon  $9.00

Chase™ Granular Mole & Gopher Repellent

Biodegradable, Environmentally Friendly & Easy-To-Apply.

**TARGET:** Gophers & moles.

**DESCRIPTION:** This biodegradable, environmentally friendly and easy to apply granular repellent will help eliminate pests like moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by pests it causes digestive interruption, deterring pests from inhabiting treated areas.

**Active Ingredients:** Castor Oil USP or equivalent 65%, Sodium Lauryl Sulfate 15%

**Inert Ingredients:** Water 20%

**SUGGESTED USE:**
- If soil is dry, water for fifteen minutes before applying Chase
- Shake or stir well before using. Begin spraying Chase to area, using a systematic method to assure full coverage. In order to ensure complete treatment, it’s recommended that you slightly overlap each area.

1287902  Chase Liquid Mole & Gopher Repellent - 32 oz.  $25.00
1287903  Chase Liquid Mole & Gopher Repellent - 1 Gallon  $48.50

Chase™ Liquid Mole & Gopher Repellent

This Easy-To-Use Liquid Repellent Will Help Eliminate Moles, Gophers, Voles, Armadillos And Other Burrowing Animals From Lawns & Gardens!

**TARGET:** Gophers & moles.

**DESCRIPTION:** Made from castor oil, this biodegradable, environmentally friendly and easy to apply liquid repellent will help eliminate pests like moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by pests it causes digestive interruption, deterring pests from inhabiting treated areas.

**Active Ingredients:** Castor Oil USP or equivalent 65%, Sodium Lauryl Sulfate 15%

**Inert Ingredients:** Water 20%

**SUGGESTED USE:**
- If soil is dry, water for fifteen minutes before applying Chase
- Shake or stir well before using. Begin spraying Chase to area, using a systematic method to assure full coverage. In order to ensure complete treatment, it’s recommended that you slightly overlap each area.

1287902  Chase Liquid Mole & Gopher Repellent - 32 oz.  $25.00
1287903  Chase Liquid Mole & Gopher Repellent - 1 Gallon  $48.50

Birdscare Flash Tape®

Repel Birds In A Wide Variety Of Applications. Great For Vegetable Rows & Fruit Trees.

**TARGET:** Use to repel birds.

**DESCRIPTION:** As it moves in the wind, the snap and shine of this ribbon will frighten and deter even the most persistent of birds. Install tape shortly before crops ripen and feeding begins and remove when harvest is over; this will keep the birds from getting used to it.

**SUGGESTED USE:** Twist into a spiral and place over a crop every 30-40 ft. or in 2 ft. long streamers. Tape can be attached to a tree, fence, porch or building by running a string through it or with duct tape.

1269901  Birdscare Flash Tape - 7/16 in. x 290 ft. (.12 lb.)  $6.99
**CRAWLING INSECT CONTROL**

**Beneficial Nematodes - Triple Threat**

**Biological Control For Crawling Insects!**

The Triple-Threat Combo includes one package of each of the Beneficial Nematodes that ARBICO Organics supplies: *Heterorhabditis bacteriaphora*, *Steinernema feltiae* and *Steinernema carpocapsae*. Use the Triple Threat to combat a broad variety of soil developing pests! Safe for use around home and gardens! See pages 17-19 for more information.

**ANT CONTROL**

**Monterey Ant Control**

*Adios Ants! This OMRI Listed Product Is The Answer You Have Been Looking For!*

**TARGET:** Ants, earwigs, cutworms, sowbugs, pillbugs, crickets, slugs and snails. Not for: Fire ants, harvester ants, pharaoh ants and carpenter ants.

**DESCRIPTION:** This easy to apply granular product is made from iron phosphate and Spinosad – a beneficial bacteria that effects insects' nervous systems.

**SUGGESTED USE:** For use outdoors and on edible crops. Use about 1 tsp./sq. yd. or 1 lb./2000 sq. ft. Apply uniformly on grounds or soil and can be applied with a hand spread for larger areas. Apply only 3x a month, and do not apply within 3 days of harvest.

- 1257895 Monterey Ant Control - 1 lb. Shaker Can $7.49
- 1257896 Monterey Ant Control - 2.5 lb. Jug $20.49

Cannot be shipped to the following states: DC, MO, ND, NJ, VA, WA, WV

**Terro® Ant Baits**

**Two Ways To Get Rid Of Ants!**

**TARGET:** Sugar and grease-eating ants including argentine, ghost, cornfield, pavement, acrobat, white footed, little black, odorous house, crazy and big headed ants.

**DESCRIPTION:** Comes in 2 formulations, RTU bait stations and Build-Your-Own.

**SUGGESTED USE:** Locate indoors or outdoors. Use remaining bait to make your own bait stations with paper or cardboard.

- 1257403 6 (Pre-filled) Bait Stations $7.89
- 1257401 Build-Your-Own Ant Killer Kit $5.40

**ORANGE GUARD®**

**Home Pest Control**

*Works Against A Broad Range Of Insects On Contact, Keeps Repelling For Weeks.*

**TARGET:** Crawling pest insects.

**DESCRIPTION:** Orange Guard has proven effective to provide effective control against a broad range of insects including cockroaches, ants, fleas, locusts, weevils, and many other hard to control insects. Orange Guard contains d-Limonene, which is steam distilled orange peel oil. Orange Guard may be used around food, humans and pets and is EPA registered. Smells great too!

**SUGGESTED USE:** For indoor use, spray from 12 inches directly on pest insects. Saturate until visibly wet. Wait 3 minutes, then wipe excess with damp cloth. Apply to pet bedding to repel fleas. Keeps repelling for weeks. For outdoor use, generously spray perimeter of home and anywhere pests can enter to make a barrier of protection.

- 1460001 Orange Guard Pest Control - 32 oz. RTU Spray Bottle $10.97
- 1460002 Orange Guard Pest Control - 1 Gallon with Sprayer $35.00
- 1460003 Replacement Sprayer for 1 Gallon Orange Guard $5.30

**FIRE ANT CONTROL**

**Orange Guard®**

**Fire Ant Control**

*Control Fire Ant Mounds Without Risking The Health Of Your Family, Pets Or The Environment.*

**TARGET:** Fire ants.

**DESCRIPTION:** Orange Guard Fire Ant Control contains ingredients which are on the FDA GRAS list (generally recognized as safe). Orange Guard Fire Ant Control is water based, so further dilution is easy. It works by dissolving away the waxy coating on the ant’s exoskeleton, which clogs their spiracles (how they breathe), and they suffocate.

**SUGGESTED USE:** Puncture the mounds and then saturate them, using 1/2 gallon of either full strength or diluted (3 parts of water to 1 part Orange Guard Fire Ant Control). Dilution does not harm grass and covers approximately 8 mounds.

- 1460005 Orange Guard Fire Ant Control - 1 Gallon $32.75

Cannot be shipped to the following states: AK, CO, DE, DC, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, RI, SD, UT, VT, VA, WA, WV, WI, WY

**Orange Guard®**

**Home Pest Control**

*Works Against A Broad Range Of Insects On Contact, Keeps Repelling For Weeks.*

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- 1460002 Orange Guard Pest Control - 1 Gallon with Sprayer $35.00
- 1460003 Replacement Sprayer for 1 Gallon Orange Guard $5.30

**Terro® Ant Baits**

**Two Ways To Get Rid Of Ants!**

**TARGET:** Sugar and grease-eating ants including argentine, ghost, cornfield, pavement, acrobat, white footed, little black, odorous house, crazy and big headed ants.

**DESCRIPTION:** Comes in 2 formulations, RTU bait stations and Build-Your-Own.

**SUGGESTED USE:** Locate indoors or outdoors. Use remaining bait to make your own bait stations with paper or cardboard.

- 1257403 6 (Pre-filled) Bait Stations $7.89
- 1257401 Build-Your-Own Ant Killer Kit $5.40
BONIDE® Home Safe™ Household Insect Killer

Don’t Let The Pleasant Scent Fool You – This Is A Powerful Insecticide & Repellent!

TARGET: Ants, crickets, flies, gnats, spiders, earwigs, midges, mites, millipedes, moths, silverfish, stink bugs, water bugs and more.

DESCRIPTION: This versatile spray is made from fragrant botanical oils (citronella, clove & cedar) that will kill pest insects on contact and repel on surfaces. Because it is water-based, there’s no greasy residue. Use indoors in kitchens, pantries, basements, under sinks and behind appliances. Use outdoors along the foundation, around window frames/doorways, along eaves and around vents and utility line entry points.

SUGGESTED USE: No mixing required. Turn nozzle to ON position and hold spray container 10-12” away from surface. Spray directly on insects (contact as many insects as possible) and to areas where insects are found or normally occur. Spray until thoroughly wet but not soaking. Repeat as needed.

1460010 Home Safe Household Insect Killer - Quart RTU $9.99
1460020 Home Safe Household Insect Killer - Gallon RTU $22.99

EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

TARGET: Ants, carpet beetles, carpenter ants, carpenter bees, centipedes, chocolate moths, clover mites, cockroaches, crickets, drugstore beetles, earwigs, elm leaf beetles, fleas, millipedes, pillbugs, power post beetles, scorpions, silverfish, spiders, termites, Trogoderma beetles and wood wasps.

DESCRIPTION: This Pyrethrin-based, multi-purpose insecticide is designed for use in sensitive areas and is approved for use in food handling areas like homes, hospitals, commercial kitchens, daycare centers, restaurants and food processing facilities. This unscented contact kill product is non-staining and contains no PBO or CFCs. Can be used inside and out, with the outside applications limited to direct applications to vegetation, foundations and crack and crevices. Not for exterior aerial applications.

SUGGESTED USE: Apply to cracks and crevices; release approximately 1 second of product per crack-crevice application and from 2-3 seconds per cubic foot of closed void space. For wood pests, locate infestation and drill holes 8-10” into insect tunnels and inject 5-10 seconds per hole. Apply more liberally for heavy infestations. Ensure contact with as many insects as possible.

1457403 EcoPCO® AR-X Multi-Purpose Insecticide - 17 oz. $17.99

Harris Famous Roach Tablets

These Super Easy To Use Tablets Are Effective For A Long Time!

TARGET: Roaches, waterbugs, silverfish and ants.

DESCRIPTION: These tablets use Boric Acid, sugar, flour and a proprietary lure to create a food that insects crave. If kept dry, tablets can remain effective for several years. But, for best results, it’s recommended that you replace tablets yearly. Contact with insect spray will negatively affect the performance of the tablets. One box can treat an entire house. Can be used in domestic and non-domestic settings (i.e., new construction).

SUGGESTED USE: Before placing tablets, clean up any leaks, cover any garbage or food and block any areas where roaches may be gaining entrance or hiding. Use no more than 12 per room. Place in cracks and crevices, under and behind appliances, in cabinets and in and underneath drawers. Any tablet visible after application must be pressed into cracks and crevices or removed.

1219550 Harris Famous Roach Tablets - 6 oz. $6.25

Perma-Guard™ Crawling Insect Control

An OMRI Listed Diatomaceous Earth Insecticide That Really Does The Job!

TARGET: Any crawling or hopping pest insect.

DESCRIPTION: Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with amorphous silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI listed product, you will receive continued protection.

SUGGESTED USE: Apply with a hand duster, power duster or as slurry to areas where insects are found. Avoid introducing into the air. Dust insects directly, if possible.

1218250 Perma-Guard Crawling Insect Control - 2 lb. Bag $10.15
1218260 Perma-Guard Crawling Insect Control - 5 lb. Bag $18.35

Case sizes available.

Cannot be shipped to the following states: AK, CO, HI, LA, ME, MD, MA, MS, NJ, NC, OH, OK, PA, RI, SD, TN, UT, WV, WI, WY
REVENGE® Pantry Moth Trap
This Pantry Moth Trap Uses Pheromone Lures To Attract The Moths & Trap Them!

TARGET: Adult moths (Indian meal moths, almond moths and raisin moths).

DESCRIPTION: This trap attracts and captures adult flour moths. These moths are found in flour, rice, crackers, dog food, bird seed and cereal. Trap works by luring male moths into trap with a pheromone (insect hormone) that female moths use to attract males for mating. Reducing the number of male moths reduces egg laying and mating. It is a good idea to keep a few of these traps on hand. Traps work without harmful chemicals!

SUGGESTED USE: Use one or two traps for an average sized room or closet and they will last 3 months.

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1280302</td>
<td>Revenge Pantry Moth Trap - 2 Pack</td>
<td>$6.10</td>
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<tr>
<td>1280303</td>
<td>Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3</td>
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<tr>
<td>1280304</td>
<td>Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6</td>
<td>$31.50</td>
</tr>
<tr>
<td>1280305</td>
<td>Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12</td>
<td>$60.00</td>
</tr>
</tbody>
</table>

BioCare® Clothes Moth Trap
Uses A Natural Pheromone Lure!

TARGET: Adult male clothes moths.

DESCRIPTION: The Clothes Moth Trap attracts and captures adult male clothes moths. It signals when an infestation is present, but does not control larvae on clothing or personal objects. Female moths are especially attracted to oily or soiled fabrics, where they lay their eggs. The moths avoid light and are therefore difficult to find and identify. The Clothes Moth Trap catches webbing clothes moths during their mating season by using a natural pheromone lure. If moths are found in the trap, take immediate measures to control the larvae. Search out damaged fabrics and destroy, dry clean or freeze them (in a deep freeze for at least 14 days).

SUGGESTED USE: Open box carefully. Remove inner parts. Peel release paper from enclosed sticky pad. Remove lure from foil pouch and place in center of sticky pad. Fold top and bottom flaps inside box. Insert pad as shown on back of package. Place trap where moths occur (bedroom closets). Use tab on side of box to pin trap to a wall at eye level. Replace every 12 weeks, or sooner if full of insects. Use traps all year round.

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<th>Price</th>
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</thead>
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<tr>
<td>1280650</td>
<td>Aunt Fannie’s FlyPunch! - 6 oz.</td>
<td>$7.99</td>
</tr>
<tr>
<td>1280655</td>
<td>Aunt Fannie’s FlyPunch! - 6 oz./6 Pack</td>
<td>$43.00</td>
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BioCare® Cockroach Traps
Powerful Attractant Lures Cockroaches!

TARGET: Cockroaches.

DESCRIPTION: Uses a powerful natural attractant to lure roaches onto a sticky glue surface.

SUGGESTED USE: Should be placed along baseboards, under sinks, and near water pipes in warm, dark areas near a food supply. Each trap covers approximately 25 sq. ft. and will last for 2 months.

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<th>Item Number</th>
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<tbody>
<tr>
<td>1260201</td>
<td>BioCare Cockroach Traps - 6-Pack</td>
<td>$8.00</td>
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<tr>
<td>1260202</td>
<td>BioCare Cockroach Traps - (2) 6-Packs</td>
<td>$14.75</td>
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<tr>
<td>1260203</td>
<td>BioCare Cockroach Traps - (4) 6-Packs</td>
<td>$26.00</td>
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</tbody>
</table>

BioCare® Window Fly Trap
A Clear, Pesticide-Free Way To Catch Flies.

TARGET: Multiple species of flies.

DESCRIPTION: This trap will capture flies in your windows, where they are drawn by the heat and light. These unobtrusive, clear sticky traps works as a bright spot on the window to attract the fly’s attention and ensnare them.

SUGGESTED USE: Remove narrow strip release paper, attach to window and then remove front release paper quickly. Replace when full or every 3 months.

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<tbody>
<tr>
<td>1280601</td>
<td>BioCare Window Fly Trap - 4-Pack</td>
<td>$4.75</td>
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</tbody>
</table>

For More Household Pest Control Solutions, Visit arbico-organics.com
Hygea Natural Bed Bug & Lice Exterminator

Use These Stain & Scent Free Products To Rid Yourself Of Bed Bugs & Keep Them Away!

TARGET: Bed bugs, dust mites, fleas, lice and ticks.

DESCRIPTION: Formulated with naturally occurring enzymes and no animal products or by-products, you can be comfortable using this residue-free product regularly. And because bedbugs can live up to a year between feedings, you will want to be proactive by spraying as often as every day for prevention. Use with the laundry treatment for a perfect 1-2 punch.

SUGGESTED USE: Spray a light mist on linens, pillows, mattresses, box springs, headboards, furniture, carpets and other surfaces where bed bugs may hide. Do not saturate, a light mist is sufficient.

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<tr>
<td>1219600</td>
<td>Bed Bug &amp; Lice Exterminator - 3 oz.</td>
<td>$5.99</td>
</tr>
<tr>
<td>1219602</td>
<td>Bed Bug &amp; Lice Exterminator - 24 oz.</td>
<td>$11.99</td>
</tr>
<tr>
<td>1219605</td>
<td>Bed Bug &amp; Lice Exterminator - 1 gal.</td>
<td>$39.99</td>
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</table>

Avenger® Natural Bed Bug Killer™ - RTU

Works Within Minutes To Kill All Life Stages Of Bed Bugs!

TARGET: Bed bugs (Cimex lectularius)

DESCRIPTION: This spray uses a base of natural plant extracts (clove and peppermint oils) to quickly and efficiently kill bed bugs in every life stage – adults, nymphs and eggs. This will knock out multiple generations to help prevent future infestations.

SUGGESTED USE: Thorough coverage of all areas where bed bugs hide is key to their control. Vacuum areas of suspected insect activity and then spray on all surfaces – even those around beds, such as floor cracks, bed frames, nearby wood surfaces, crevices in wooden furniture and baseboards. Spray entire mattress and box spring. Redo application in 2 weeks. Heavy infestation may take a third application. This 24 oz. bottle is adequate to treat a small bedroom once.

<table>
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<tr>
<th>Product Code</th>
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<tbody>
<tr>
<td>1888815</td>
<td>Avenger Natural Bed Bug Killer - 24 oz. RTU</td>
<td>$21.50</td>
</tr>
</tbody>
</table>

Harris Bed Bug Killer

This OMRI Listed D.E. Product Is Effective Against So Much More Than Bed Bugs!

TARGET: Bed bugs, fleas, cockroaches, silverfish, ants, Asian lady beetles, boxelder bugs, cluster flies, carpet beetles, millipedes, centipedes, crickets, earwigs, slugs and more.

DESCRIPTION: Effective against bed bug adults, nymphs and hatchlings, this powder is also a potent weapon against other indoor and outdoor pests and those that travel in between, like fleas, crickets and ants. Virtually any insect that crawls through or jumps into this powder will suffer fatal damage to its exoskeleton, causing dehydration and death. This powder is odorless and non-staining and will remain effective for months, as long as it is kept dry and undisturbed.

SUGGESTED USE: Apply to cracks and crevices in dry areas by dusting with suitable equipment such as Insecticide Puffer (available online). Apply lightly and uniformly. Dust insects directly if possible and repeat treatment regularly. Spot treatments should not exceed 2 sq. ft. Amount of product to use should be in the range of 1-5 oz./100 sq. ft.

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>1219500</td>
<td>Harris Bed Bug Killer - 8 oz. Puffer Bottle</td>
<td>$8.00</td>
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<tr>
<td>1219501</td>
<td>Harris Bed Bug Killer - 32 oz. Powder</td>
<td>$12.00</td>
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<tr>
<td>1219502</td>
<td>Harris Bed Bug Killer - 64 oz. with Duster</td>
<td>$16.29</td>
</tr>
</tbody>
</table>

ClimbUp®

Do You Worry About Bed bugs? This Device Can Help.

TARGET: Residential or commercial spaces where furniture and bedding should be monitored for bed bugs.

DESCRIPTION: ClimbUp is a tough, plastic, re-usable double well cup that is placed under the legs of beds (or other furniture that you rest or sleep on) to intercept any bugs entering or leaving the bed. ClimbUp contains no chemicals or pesticides so it will not outright kill the insects. They will eventually dehydrate and die in the trap. ClimbUp should be seen as a monitoring device and not an insect control measure.

SUGGESTED USE: Place ClimbUp devices under each leg of the furniture where people sleep or rest. Monitor frequently to determine presence of insects. Clean and re-lubricate as needed.

<table>
<thead>
<tr>
<th>Product Code</th>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1250105</td>
<td>ClimbUp Original - 4 Pack</td>
<td>$15.20</td>
</tr>
<tr>
<td>1250106</td>
<td>ClimbUp Original - 12 Pack</td>
<td>$45.60</td>
</tr>
</tbody>
</table>

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Take advantage of our FREE consultation! Let us help solve your gardening and farming issues with our start to finish ARBICO Organics solutions. Our trained staff will help determine what problem you have (insect, disease, weed, nematode, critter, pet issue, fertility needs), offer solutions for immediate relief and prescribe a long term sustainable program for continued success.

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We can automatically ship any product on a regular schedule so you won’t run out. Popular auto ship products include: Fly Eliminators, Beneficial Nematodes, Green Lacewings, Ladybugs, horse sprays, fertilizers, pet supplies & many more!

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Mail Checks or Money Orders To:
ARBICO Organics, 10831 N. Mavinee Dr., Ste. 185, Oro Valley, AZ 85737-9531
We do not accept cash via mail.

CUSTOMER SERVICE
All phone calls answered by a live person during regular business hours: Monday through Friday, 8:00 AM - 5:00 PM (Arizona Time Zone)
• Se habla Español
Toll Free: 800-827-2847
International calls: 520-825-9785
Fax: 520-825-2038

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Oro Valley, AZ 85737-9531
800-827-2847
Please call for product availability.
STORE HOURS:
Monday - Friday: 8:00 AM - 5:00 PM

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Sheri Herrera de Frey, Vice President, ARBICO Organics™

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Number of Horses/Animals | Units Suggested | Value Pricing
--- | --- | ---
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6 - 10 | 1/2 Unit | $21.95
11 - 15 | 1 Unit | $32.95
16 - 20 | 1 1/2 Units | $43.95
21 - 25 | 2 Units | $57.95
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*These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators™ depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown. © 2019 Arizona Biological Control, Inc.

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