

Marengo herbicide benefits nursery, GH growers

The verdict is in – Marengo® is a big hit with both nursery and greenhouse growers!

Now in its third year, we've seen numerous nurseries and greenhouses take advantage of Marengo's efficacy and longevity.

"Many have made Marengo part of their regular herbicide application program," notes Dan Stahl, OHP VP of marketing and business development. "Whether controlling broadleaf or grassy weeds, Marengo offers long-term control of up to eight months or longer."

Nursery growers have enjoyed the advantages since introduction.

Last summer, we added greenhouse floors to the Marengo liquid label, allowing growers to spray the ground under benches, on black cloth, on gravel areas, or on bare-dirt floors, to prevent weeds from germinating.

Marengo does not volatilize, which makes it unique, but greenhouses should be clean and empty of desirable plants before applying.

After application, users should follow up with a minimum of .25 inches of water and allow to dry for 24 hours before placing plant material on benches or floors.

Marengo may also be applied in hoophouses and shadehouses, and ornamental production sites such as mum fields and growing blocks

The product is also available in a granular form – Marengo G – which offers the same effective control on nursery containers.

Specimen labels and SDS are available at ohp.com. ■

Heath Lowery joins OHP

OHP is proud to announce the addition of Heath Lowery to its team of regional sales managers.

Heath is based outside of Houston, TX, and covers eastern Texas, Louisiana, and Arkansas.

Prior to joining OHP, Heath worked for four years as a regional sales manager for Valent/NuFarm.

In addition, Heath spent three years at Greenleaf Nursery as propagation supervisor.

"With his growing background, Heath is a valuable resource for his customers," notes Terry Higgins, OHP VP of sales. "He's extremely knowledgeable about growing and about how to best address pest issues."

Heath holds a bachelor's of science degree from Texas A&M University and a master's degree in horticulture from Stephen F Austin State University.

Welcome to the OHP family, Heath! ■



Heath Lowery



This photo from a Florida nursery taken five months after treatment tells the Marengo story. Untreated is in the foreground middle. The remainder of the row was treated as were the rows on either side.

MSDS now known as SDS

We've reached an important deadline with the changes mandated by OSHA's revised Hazard Communication Standard (HCS).

OSHA (Occupational Safety and Health Administration) has ordered the changes so that the HCS is "aligned with the United Nations' Globally Harmonized System of classification and labeling of chemicals."

Take the government-speak out and on a practical level, here's the meat: Material Safety Data Sheets (MSDS) are now Safety Data Sheets (SDS) after June 1, 2015. Any SDS available after June 1 should be titled "SDS" and follow the new guidelines.

Growers should make an effort to have the new SDS for any pesticide they have on premises. OHP has made the necessary changes and copies of SDS are available on our website ohp.com.

OSHA says the modified standard "provides a single set of harmonized criteria for classifying chemicals according to their health and physical hazards and specifies hazard communication elements for labeling and safety data sheets."

OSHA says one of the goals of the HCS is to bring all SDS worldwide into compliance so they are the same everywhere.

Pesticides are registered by U.S. EPA and are subject to certain labeling requirements under federal pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required for SDS, which are governed by OSHA. ■

Using biopesticides effectively to prevent and manage plant diseases

By Dr. Carlos Bográn,
OHP manager of technical services

Although biopesticides are commonly used to control insect pests, biological pesticides or biopesticides are not known widely for their use in the control of plant diseases.

This may be in part due to the types of products available and their compatibility with current growing practices.

Based on how they are used, most biopesticide products fall somewhere between chemical and biological control.

Some products can be applied just like conventional chemicals to control diseases but in most cases biopesticides should be applied under a particular set of conditions, to reduce the likelihood of infection by pathogens that may cause disease.

Not all biological products are the same or work in the same way.

Efficacy of a biological pesticide depends on the source of the organism, whether it requires colonization of roots or foliage and special handling and storage protocols, the specific isolate and expected mode(s) of action against common diseases, the product formulation - whether it is compatible with common application tools and uses, and the quality of information available on dose response and performance under different field conditions.

Labels and SDS available on ohp.com

Our website is a valuable resource for the grower community.

All specimen labels and SDS, as well as other literature like our Chemical Class Chart, are available for download at ohp.com.

There's also other great information on the site.

Among the myriad of microbial-based products available, those based on *Bacillus* sp. have been around the longest and are the most common.

Their antagonistic effects against pathogens are caused by several antibiotic compounds.

Bacillus species are able to induce growth and defense responses on the host plant, and they produce spores resistant to UV light and heat which allows survival under adverse conditions.

Previously known as a variety of *B. subtilis*, *Bacillus amyloliquefaciens* (BA) is known as an extraordinary producer of antibiotic compounds with fungistatic, fungitoxic and bactericide properties.

This overproduction of natural compounds in BA leads to improved efficacy at low rates as both a foliar spray and soil-drench broad spectrum fungicide/bactericide.

Triathlon BA to debut in fall

OHP is introducing this microbiological tool to the ornamental grower in the near future. Triathlon® BA, a liquid concentrate formulation containing 98.85% active ingredient (*B. amyloliquefaciens* 1 x 10¹⁰ Colony

Forming Units per milliliter), is federally registered and is currently undergoing the state registration process.

Triathlon BA is labeled for control of a variety of diseases including botrytis, powdery mildew, scab, rust, downy mildew, rhizoctonia, phytophthora, pythium, and bacterial spot on a wide variety of vegetables, fruits, herbs, and spices in the greenhouse and nursery.

We have seen great efficacy thus far coupled with excellent crop safety.

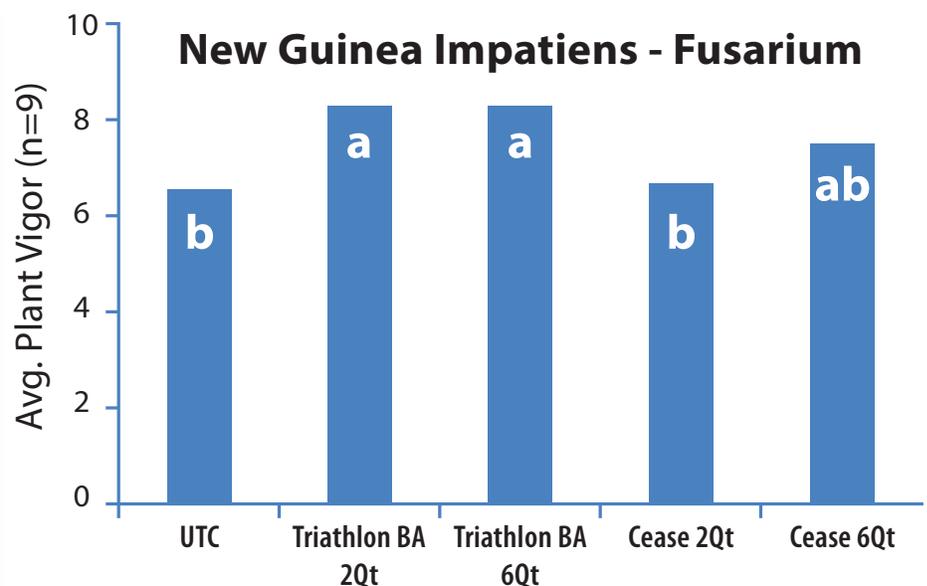
The chart below represents one such greenhouse test on 4-inch New Guinea impatiens treated with Triathlon BA and inoculated with *Fusarium* three days later.

For more information on Triathlon BA and registration status in your state, please visit ohp.com.

Triathlon is a registered trademark of OHP, Inc.



Carlos Bográn, PhD
Manager Technical Services



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New Marengo G granule offers consistent performance

Low odor, low dust a winner with users

We're now producing Marengo® G on a new and improved granule and the response from the field has been excellent.

The new granule allows for easier application and provides the same effective performance.

Marengo G, with its active ingredient in-daziflam, is now produced on granules that utilize the proprietary Verge® technology, resulting in larger, heavier, and more uniform particles that offer several advantages for users:

- Reduced dust for less applicator exposure;
- More uniform coverage;
- More accurate, on-target applications even in breezier conditions;
- Less chance for plant injury as the heavier particle rolls freely off of plant surfaces

The new formulation looks and handles much like Biathlon®, another quality OHP herbicide, notes David Barcel, OHP senior technical manager for herbicides and PGRs.

“Both Marengo G and Biathlon are produced utilizing the Verge granule technology,” says Barcel. “We have received nothing but positive feedback from both Biathlon and Marengo G users.”



Marengo G offers effective, long-term pre-emergent control of both broadleaf and grassy weeds with little effect on desirable plants. The product does not volatilize and does not move in the soil once it is watered-in after application.

Marengo G, packaged in 50 lbs. bags, 40 to a pallet, can be applied over-the-top of containers in nurseries, and may be applied in hoop, shade and lath houses.

Ask your local OHP regional sales manager about the new Marengo G. Specimen labels and SDS are available at www.ohp.com

(Marengo is a registered trademark of Bayer. Biathlon is a registered trademark of OHP, Inc. Verge is a registered trademark of Oil Dri Corp.)

Marengo G is now produced on a granule that utilizes the proprietary Verge technology, allowing for more uniform coverage and more accurate, on-target applications.

OHP to package Marengo liquid in convenient smaller bottle

We listened to the many comments we've received on our stellar new pre-emergent herbicide Marengo® and we've responded.

Beginning this fall, Marengo liquid herbicide will be available in an 18 fl. oz. container for small users. OHP will continue with the dominant size, the 64 fl. oz. container.

What won't change is superior efficacy and residual control. See the photos below.

The greenhouse label has resulted in weed control indoors where previously, no pre-emergents could be used because of volatility. Marengo does not volatilize.

Marengo liquid may be used under benches, on ground cloth, on gravel areas, and on dirt floors in greenhouse structures and hoop and shade houses for control of both broadleaf and grassy weeds.

Greenhouses should be clean and empty of any desirable plants before the application is made. Users should follow up with .25 to .50 inches of water after application and wait 24 hours before placing plant material on benches or floors.

Ask your local OHP RSM about the availability of Marengo liquid in the smaller bottle.



LEFT, Marengo treated on right, untreated on left, six months after treatment. In MIDDLE, walkway 6 months after Marengo treatment. RIGHT, 6 months after treatment on left, untreated on right. (thanks to OHP's Tobey Barr, Tom McCarter and Don Lovisone for the photos!)

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Here are latest product updates from OHP

At OHP, we are in the business of continuously bringing new products and technologies to the production ornamentals market. Following is a summary of the features of several products we've launched over the last few years. In the world of pest control products, that constitutes "new" or at least "newer."

AZATIN O

Azatin® O Biological Insecticide is an Insect Growth Regulator (IGR) that has replaced Azatin XL.

Azatin O features several upgrades including OMRI Classification, the highest concentration of azadirachtin available (175 grams per gallon compared to 128 for competitive products), and rate flexibility.

Growers may use Azatin O indoors, outdoors, and in hydroponic growing systems on ornamentals, fruits and vegetables including berries, and herbs and spices.

Combine Azatin O with an adulticide like OHP's Decathlon® for control of both larvae and adults.

FULCRUM

Another IGR, Fulcrum® offers effective control of fungus gnat larvae, scales, mealybugs, whiteflies, and other insects.

With the active ingredient pyriproxyfen, Fulcrum is a great tool for growers as part of an IPM program.

Another advantage – Fulcrum does not contain petroleum distillates, which results in greater plant safety.

KONTOS

Our insecticide/miticide is an alternative class of chemistry that is effective on numerous pests at very low rates.

Kontos® is fully systemic, meaning it moves both up and down in plants, giving growers the option of foliar applying and the assurance that the active ingredient moves down

into lower leaves and into roots.

Among the target pests with Kontos – aphids, whiteflies, mealybugs, scales, thrips (suppression), and spider mites.

Kontos may also be used on vegetable transplants and some herbs in the greenhouse.

SEGWAY O

Segway® O, our newest fungicide, is an excellent choice for control of pythium, phytophthora crown and root rot, phytophthora aerial blight, and downy mildews on ornamentals.

A flowable suspension concentrate formulation, Segway O contains the active ingredient cyazofamid, the only member of fungicide Mode of Action (MOA) Group #21, making it an ideal candidate for inclusion into a disease control rotational strategy.

As a spray or drench, Segway O provides control of 7 to 28 days, depending on disease pressure. It is now available in a convenient 16 fl. oz. bottle.

Segway O rates range from 1.5 to 6.0 fl. oz. per 100 gal. of water. The product carries a 12-hour REI and Caution signal word.

STRIKE PLUS

Another "new" OHP fungicide, Strike® Plus, is a combination of the active ingredients triadimefon and trifloxystrobin. The dual MOAs provide more broad-spectrum control of troublesome foliar diseases.

Strike Plus can be used both inside and outside as a preventive or curative. Users simply adjust the rate accordingly.

A combination of a sterol inhibitor (triadimefon) and a strobilurin (trifloxystrobin), Strike Plus provides systemic and translaminar activity on many diseases including powdery mildew, rusts, scab, leaf spots, botrytis, and others.

Strike Plus is packaged in one-pound containers, 12 to a case. The product carries a Caution signal word and 12-hour REI.

OHP will phase out Strike 50 WDG but will maintain federal and state registrations for a period of time so growers can use up existing stock. ■

Cultivate headlines list of summer shows

We hope to see you at the premier show in the world of professional horticulture, Americanhort Cultivate '15 slated for July 11-14 in Columbus, OH.

This year's event, previously the OFA Short Course, incorporates nursery, retail, and landscape. It should be a great show as usual.

Please stop and visit OHP at Booth #1129. We have some cool giveaways plus some new products and technologies to detail.

In addition, OHP Manager of Technical Services Dr. Carlos Bográn, is on the educational program twice. Both sessions are Tuesday, July 14.

At 8 a.m., he will speak on "Pernicious Nursery Pests and Management Strategies," followed at 11:30 with "Neonicotinoid and Bee Health – Neonic Alternatives." Carlos is always a big draw at Cultivate.

In addition to Cultivate, OHP will be at several other summer shows including:

- TNLA in Dallas, Aug. 13-15, Booth 1422;
- FarWest in Portland, OR, Booths 14015, 15016;
- AmericanHort GrowPro Series, Sept. 15-16 in Minneapolis, and Sept. 15-17 in Pittsburgh

In addition, we'll be at some of the summer and early fall distributor shows. Please stop by and say hello. We look forward to seeing you sometime in the next few months! ■

OHP News

OHP showcases research at California Spring Trials

The 20th anniversary was a great show!

Our Senior Technical Manager Dave Barcel participated in his 20th Spring Trial event in California this past April.

We partnered with our fantastic host American Takii in Salinas once again and our display generated interest from the many visitors.

The California Spring Trials represent a great opportunity to get up close and personal with the latest and greatest new varieties of plant materials.

Dave, our lead scientist, displayed the results of trial work on Maren-go for both greenhouse and nursery uses, and results of application of our PGRs Cycocel® and Paczol® to geraniums.

He also gave us a look into the future with some work on a new active ingredient, a non-neonicotinoid insecticide, for future introduction.

OHP has plans to continue with the educational opportunity presented by the Spring Trials in the coming years.

Marengo is a registered trademark of Bayer. Cycocel is a registered trademark of BASF Corp. Paczol is a registered trademark of trademark of MacDermid Agricultural Solutions, Inc.



Top, OHP's Dave Barcel interacts with attendees at the California Spring Trials. Bottom, OHP regional sales manager Dennis Kern in our display area.

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